



Service, Parts Manual for 6, 3-Row Models, Fan-Cooled and Natural Convection

Frymaster[®]



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

24-Hour Service Hotline 1-800-551-8633



NOTICE

IF, DURING THE WARRANTY PERIOD, THE CUSTOMER USES A PART FOR THIS FRYMASTER DEAN 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 CABINET IS NOT SUITABLE FOR OUTDOOR USE. WHEN OPERATING THIS UNIT, IT MUST BE PLACED ON A HORIZONTAL SURFACE.

THE CABINET 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.

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 CABINET WITHOUT FIRST READING THIS MANUAL.

DO NOT OPERATE THE CABINET UNLESS IT HAS BEEN PROPERLY INSTALLED AND CHECKED.

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

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

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

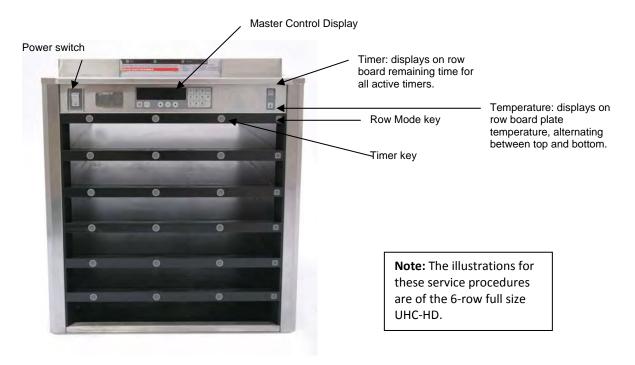
USE CAUTION WHEN LIFTING THE UHC-HD. THE UNIT WEIGHS 200 POUNDS. THREE TO FOUR PEOPLE, USING STANDARD SAFE LIFTING PRACTICES, WILL BE NECESSARY TO HANDLE THE CABINET.

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1 Functional Description



1.2 Theory of Operation

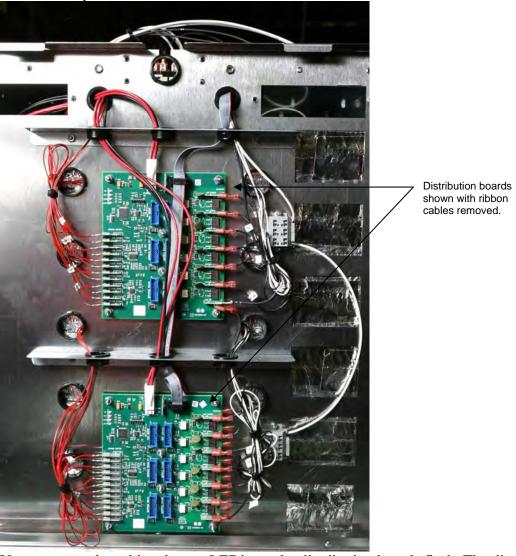
The cabinet operates on 208-250VAC 50 or 60 cycle single-phase power. The main switch activates a relay, which supplies line voltage to two distribution boards, three cooling fans and a power supply. The power supply provides 5VDC to the master control board and the distribution boards.

The fans were removed from later versions of the UHC-HD and the power supply moved to the right side. The cabinets, functionally, are otherwise the same. The cabinet without fans has a flat top.

A ribbon cable connects the master control board to both distribution boards. Ribbon cables also connect the distribution boards to the displays. The resistance of RTD's, attached to the heater plates, is monitored by the distribution boards. The board switches power through solid-state relays to the heater plates when the resistance, which is used as an indicator of temperature, falls out of the range for the product held in the cabinet.

The switch, relay, master control, master control board, line filter board, line filter, cooling fan (original design) and power supply (original design) are mounted under the top of the unit. The cabinet is programmed using the key pad on the front bezel.

1.3 Start Up Indicators and Test Points



Upon startup, the cabinet beeps. LED's on the distribution boards flash. The displays show the version number of the cabinet's firmware and then the row's status.

2 Service Procedures

DANGER: Failure to disconnect power from the unit before servicing could result in serious injury or death. The cabinet power switch DOES NOT disconnect all incoming power to the

cabinet.



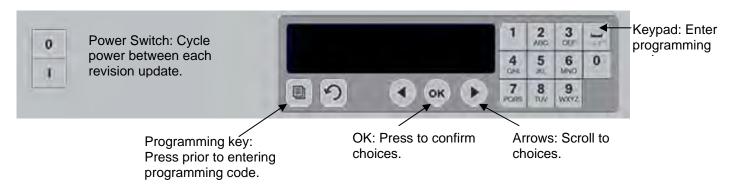
Fig. 2: Tabs in the topcap extend to holes in the cabinet. The top is secured with at the tabs with screws.

NOTE: Cabinet shown is original UHC-HD. The later design with a flat top disassembles the same way.

Fig. 1: The sides are held in place by screws near the base of the unit on each side.

2.1 Updating Software/Capturing Configurations

The five sections of software on the cabinet can be updated individually. To ensure compatibility between cabinet software and replacement boards, the software should be updated to the latest version at any board replacement. Follow the directions below.



Software updates use the master control display to enter programming codes, scroll to areas to be revised, respond to questions and exit. The control is annotated above. The arrow and OK buttons are illuminated when active.

Check Existing Versions

- 1. With the unit powered up, press the programming key.
- 2. Screen scrolls Enter Access Sequence.
- 3. Enter 090809 on keypad.
- 4. Press OK.
- 5. Scroll with arrow keys to view all software revision numbers:
 - Main
 - Boot Loader
 - Master Display
 - Distribution Board
 - Row Display
- 6. Press OK.

NOTE: If the master control displays an error message during the install process, turn the cabinet off for 30 seconds and back on. Repeat install steps.

Update: Boards

- 1. Turn power off.
- 2. Insert flash drive in USB port located on cabinet bezel.
- 3. Turn power on.
- 4. Cabinet displays version numbers followed by current menu setting.
- 5. Press programming key.
- 6. Screen scrolls Enter Access Sequence.
- 7. Enter 98765 with keypad.
- 8. Press OK.
- 9. Scroll with arrow key until software section (see loading sequence box) to be updated is displayed on master control board.
- 10. Press OK.
- 11. Screen displays Copying Files, Please Wait. This takes several minutes.
- 12. Screen messages will vary, depending on software section being installed. Follow screen instructions.
- 13. Screen displays Complete.
- 14. Press OK.
- 15. Screen displays Main Boot Loading and a percentage of completion.
- 16. After 100% is displayed, screen goes blank and returns to menu display.
- 17. Turn cabinet off for 30 seconds and back on.

Update: Language File

- 1. With the unit on, press program button.
- 2. Enter 090709 with the keypad.
- 3. Press OK.
- 4. Screen displays Reconfigure OK or Cancel.
- 5. Press OK.
- 6. Screen displays Please Wait Lang Bin.
- 7. Screen displays 9 files copied.
- 8. Press OK.
- 9. Screen returns to normal display.
- 10. Turn cabinet off for 30 seconds and back on.

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.

Loading Sequence

Software should be loaded in this sequence:

- Main Board
- Language
- Row Display
- Distribution Boards

If the software update only involves a few of the components, follow the loading sequence, skipping the unneeded component.

Incompatibility Message

The cabinet can display an incompatibility message during software upgrades. The buttons will remain active. Follow the loading sequence and the incompatibility is corrected as the software components are loaded.



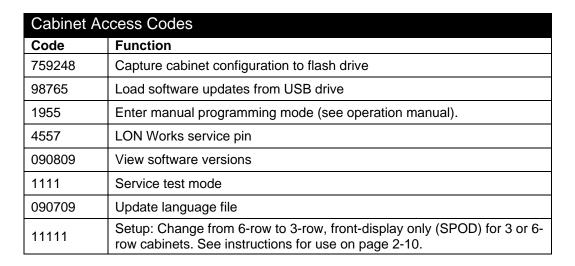
flash drive for transfer to cabinets with the same software setup.

See Exporting and Importing named configurations in the user's manual, 819-6560, on page 3-11.

- 6. Press OK.
- 7. The master control displays PLERSE WRIT... 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.

Configure Cabinet with Menu/Configuration Captured on another Cabinet

- 1. Place a flash drive with only a captured menu/cabinet configuration in the root file 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 CRNCEL.
- 5. Press OK.
- 6. The master control will display PLERSE WRIT... 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.

2.2 Placing the cabinet in Service Mode

The cabinet can be put in service mode, a diagnostic settings which allows the heater plates to be controlled individually, brightness settings on the displays adjusted and re-addressing for unique arrangements of bezels. Follow the steps below:



Switching Heater Plates Off Individually

When troubleshooting, it may be useful to switch heater plates off individually. Follow the instructions below:

- 1. Press the programming key.
- 2. Enter 1111 at the Enter Access Sequence prompt.
- 3. The screen will scroll Row 1 Top Heater Off; pressing OK turns it back on.
- 4. Voltage can be measured between the plate-specific heater leads on the distribution board and the common block to the right of the distribution board as the heater plates are switched, individually, on and off.
- 5. Scroll to other plates with **◄▶**.
- 6. Ensure the plates are on before backing out of the Service Mode with the Ω .

Adjusting Display Brightness

When multiple row positions are timing the same item, the display with the least remaining time is the brightest. All others are dimmer as are positions not actively timing a product. The relative brightness of the bright display and the dim display can be adjusted. Follow the instructions below:

- 1. Press the programming key.
- 2. Enter 1111 at the Enter Access Sequence prompt.
- 3. Press OK.
- 4. The screen will scroll Row 1 Top Heater Off.
- 5. Scroll with ▶ through all the Heater Plate prompts until the screen displays Press OK to Adjust Bright Row Display.
- 6. Press OK.
- 7. The cabinet's row displays become

Decrease Increase 88888 20

- 8. Press the timer button next to the Decrease display to lessen the brightness; the number displayed at the right will decrease. Press the timer button next to the Increase display to increase the brightness; 20 is the maximum.
- 9. Press OK. The display becomes Adjust Dim Intensity. The cabinet's row displays become Decrease Increase 88888 03
- 10. Press the timer button next to the Decrease display to lessen the brightness; the number displayed at the right will decrease. Press the timer button next to the Increase display to increase the brightness; 1 is the minimum.
- 11. Press OK.
- 12. Cabinet returns to menu display.

Readdressing the Cabinet

Addressing, or assigning a position-specific component such as a display or distribution board, is done automatically by the cabinet on startup. Communication errors can occur on start-up after a board installation however. If so, follow the instructions below to readdress the cabinet. This process can also be used during troubleshooting when displays are connected out of synch with their associated bezel on the same row level.

- 1. Press the programming key.
- 2. Enter 1111 at the Enter Access Sequence prompt.
- 3. The screen will scroll Row 1 Top Heater Off.
- 4. Scroll with ▶ through all the Heater Plate prompts until the screen displays Press OK to Re-Address.
- 5. Press OK.
- 6. Screen Displays Please Power Cycle Off.
- 8. The cabinet will start in the normal start-up sequence.

7. Turn the cabinet off and back on.

2.3 Accessing the Electronic Components

- The component shelf is accessed by removing two screws on each side of the unit (**Fig. 1**).
- Lift and remove the sides, which exposes screws that hold the top in place (Fig. 2).
- The components for the original cabinet and the natural convection model are annotated below (Fig. 3,4).

NOTE: The component shelf changed with the introduction of the natural convection UHC-HD. The fans are removed and the power supply is mounted on the right side of the unit.

NOTE: Readdess the

such as a heater plate

replacement.

cabinet if multiple displays

are removed and reinstalled

during a service procedure,

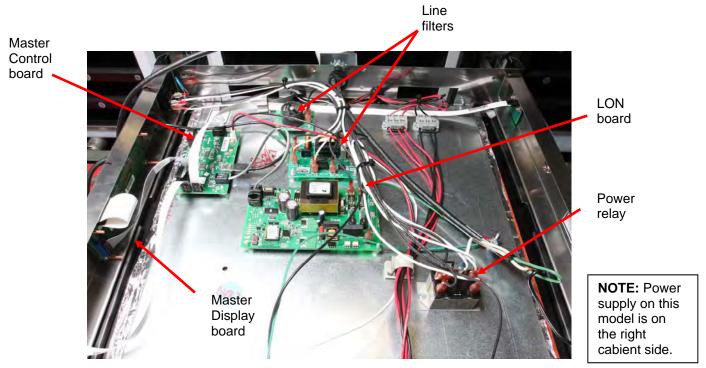


Figure 3: Natural convection design component shelf.

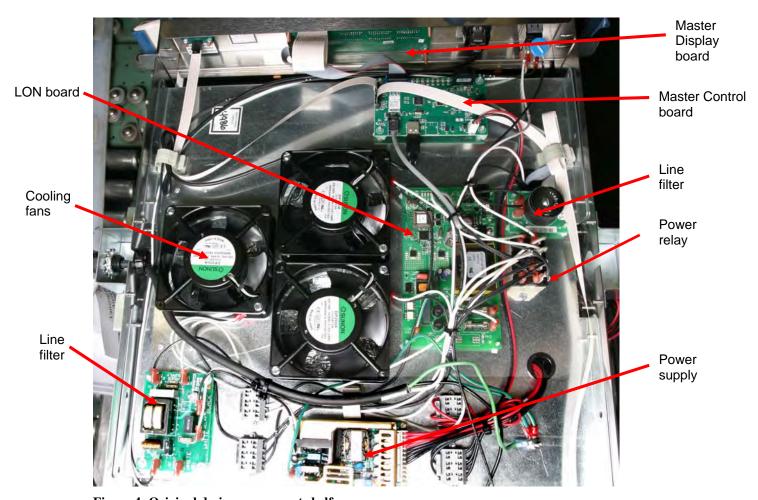


Figure 4: Original design component shelf.

2.4 Circuit Board LED Diagnostics Master Control Board:

 HB LED is a heartbeat; should be flashing when in the normal in- use mode. Flash rate is not critical.



Fig. 5: Master Control Board LED's

- **ACT LED** similar to HB but flashes at a faster rate.
- **OK LED** toggles each time a valid communication packet is sent and received. Normally a very fast flicker.
- **ERR LED** toggles when a communication error is detected; it's not unusual to see a flash, but regular flashing means communications problems.
- LED5 and LED6 used for programming/debugging; have no diagnostic function.
- **LED7** When lit, the master control is executing a time or temp query operation on the front side.
- **LED8** When lit, the master control is executing a time or temp query operation on the back side.

Distribution Board

- **HB LED** is a heartbeat LED; toggles on / off to indicate processor is running.
- **ACT LED** flashes when it receives a valid communication packet; it should be flashing every few seconds or faster.
- **LED3** Toggles if there is a communications error on a packet directed to the distribution board. Can flash on occasion; shouldn't flash regularly.
- **LED1** flashes if there is voltage being applied to one or more heaters on that distribution board; one or more plate is calling for heat.



Fig.6: Distribution Board LED's

2.5 Tests

2.5.1 Power Supply

- 1. Disconnect power and check all terminals and connections for loose or disconnected wires.
- 2. Apply power and check for 5VDC at the power-in terminal on the distribution board and chassis ground.

2.5.2 RTD

1. Remove the leads from the suspect RTD and test for resistance. Selected temperatures and resistances are show in chart at right.

NOTE: After testing, reconnect all leads to their original positions.

2.5.3 Distribution Boards

1. Check for line voltage between the heater plate terminal on the board and the terminal block for the suspect heater. Note: Line voltage is only seen when the row is calling for heat.

2. Check for line voltage between the power input terminal and the terminal block.

3. Check for +5VDC at the

Distribution Board Message Test: Unplug top board.

Board 0 message; bottom board is 1. Board 1 message; bottom board is 2. **See Board Error Messages Page 3-1**.

power-in terminal and the terminal block for the power supply.

NOTE: After testing, reconnect all connections to their original positions.

2.5.4 Display

- 1. Remove power from unit.
- 2. Connect the ribbon cable from a suspect display to the connector of a properly working display to isolate the problem to the display or the distribution board.
- 3. Reapply power to cabinet.

Sensor (°F)	Resistance	Sensor (°C)
60	106.065	15.55
70	108.224	21.11
80	110.380	26.66
90	112.532	32.22
100	114.680	37.77
110	116.825	43.33
120	118.966	48.88
130	121.104	54.44
140	123.239	60.00
150	125.369	65.55
160	127.496	71.11
170	129.620	76.66
180	131.740	82.22
190	133.856	87.77
200	135.969	93.33
210	138.078	98.88
220	140.184	104.44
230	142.286	110.00
240	144.385	115.55
250	146.480	121.11
260	148.570	126.66

RTD resistance chart



Fig. 7: Distribution board shown with display cables removed.

2.5.5 Shorted Triac

1. Turn the suspect row off and measure voltage between the suspect heater lead on the distribution board and the terminal block. With the row off, there should be no line voltage. If the triac is shorted, you will measure AC line voltage. If the triac is half waving, you will get DC voltage of approximately one-half the line AC voltage.

2.5.6 Heater Plate

- 1. Disconnect power to the cabinet. Remove side and top panels. Disconnect the black heater lead and the RTD leads (brown and red) of the suspect plate from distribution board. Measure resistance of the heater from the black lead to any terminal on the white terminal block. Resistance should be 140-150 ohms.
- Measure resistance across the brown and red RTD leads. Resistance must be within a range of 104-148 ohms. Resistance at room temperature is approximately 107 ohms. See chart on Page 2-4 for resistance at different temperatures. If either resistance is incorrect, replace the heater plate.

2.5.7 Display Meanings

- 1. ROW TEMP HIGH OR ROW TEMP LOW and no audible alarm. This is normal when the row is changing temperature in association with a menu change.
- 2. LLL means the RTD indicates a temperature below 50°F (10°C). Unit will automatically heat at 20 percent until temperature is above 50°F (10°C), then operate normally.
- 3. HHHH means RTD indicates the temperature is above 255°F (124°C), but below "Open" circuit resistance, which causes SENS ALARM.
- 4. UHC VERSION _ _ _ (version number will vary) appears for five seconds when the unit is turned on.
 5. The cabinet also displays a variety of error messages, which are shown on page 3-1.

Fig. 8: Two screws (see arrows) at the base of each side of the cabinet secure the sides.

NOTE: Readdess the cabinet if multiple displays are removed and

procedure, such as a heater plate

reinstalled during a service

replacement. See page 2-5.

2.6 Removing/Replacing Bezels

- 1. Remove power from unit.
- 2. Remove screws at the base of each side and remove side panels. (See figure 8.)
- 3. Unplug the bezel from the distribution board.
- 4. Plug the replacement bezel into the distribution board, return power to the unit and test the bezel/cabinet for accurate operation.
- 5. Remove replacement bezel and remove power from the unit.
- 6. Loosen the hex nut which secures the row and remove the allen screw, which holds the bezel. Also remove, if present, the small bezel-securing screw. (See photo below.)
- 7. Push, if necessary, on the mounted bezel through the access port in the inner panel to loosen the bezel. (See Figure 9 below.)
- 8. Remove bezel; clean and degrease the groove in the heater plate.

9. Route ribbon cable for the new bezel through the inner panel of the cabinet and press the new bezel into place. Ensure it is firmly seated and tighten hex nuts and replace allen screws.

10. Return sides and reposition cabinet for operation.

Board Replacement on SPOD/3 Row Units

NOTE: IF replacing a master control board on a SPOD (front bezel displays only, 6 or 3 row) or 3-row dual side display unit, the cabinet must be reset for that style of operation. Service boards are defaulted to operate on 6-row dual display units.

Follow the instructions below:

- 1. After the board is replaced, return power to the unit.
- 2. Press the programming key on the master display and enter 11111 (5 1's).
- 3. Scroll through options on the master display with the illuminated ▶ key: 6 shelf single side; 6 shelf dual side; 3 shelf single side; 3 shelf dual side.
- 4. With the desired configuration displayed, press the illuminated OK key.
- 5. Are You Sure appears on the master display screen.
- 6. Press OK.



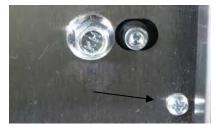


Fig. 9 Loosen the hex bolt and remove the allen screw (arrows, upper photo). Some row positions may have an additional screw securing the bezel to the cabinet (lower photo). Push through the access port (arrow, upper photo), if necessary, to remove the bezel from the cabinet.

2.6. 1 Removing/Replacing a Distribution Board or Communication Board

- 1. Remove power.
- 2. Remove and mark the wires on the faulty component.
- 3. Remove the board by lifting it from its standoffs.
- 4. Position the new board and attach wires.
- 5. Reapply power.
- 6. If applicable, see SPOD/3-row instructions above.
- 7. Run readdress steps on page 2-4.

2.6.2 Replace a LON Board

- 1. Remove power.
- 2. Access the component shelf as describe in 2.3.
- 3. Remove the board, marking the wires for attachment to the new board.
- 4. Position the new board and attach the wires.
- 5. Reapply power and allow the unit to boot up to a steady display.

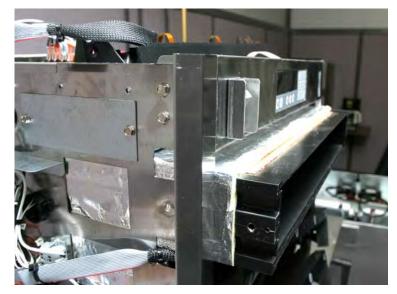


Fig 10: A row is shown partially removed from the cabinet.

- 6. Continue with these steps if the cabinet is in a store with a LON system.
- 7. With a menu in the master display, press the programming button and enter 4557.
- 8. Press OK.
- 9. The display will scroll: Press OK to activate service pin.
- 10. Press OK.
- 11. WINK appears on the master display and OK is illuminated.
- 12. Press OK.

2.6.3 Removing a Row

1. Remove the sides and top as shown in earlier steps. Disconnect the faulty row from the distribution board, and terminal block.

NOTE: Readdess the cabinet if multiple displays are removed and reinstalled during a service procedure, such as a heater plate replacement. See page 2-5.

- 2. Remove the bezels on each end of the affected row, as shown in earlier steps, and the necessary adjacent bezels to remove the row.
- 3. Remove wire wraps from wiring harness holding heater and control wires for affected row.
- 4. Lifting slightly, carefully slide the malfunctioning row out of the cabinet. Do not allow the row to contact or damage the controls of the unit below (**Fig. 10**).

2.6.3 Replace Heater Plate/RTD

- 1. Remove row as shown above.
- 2. Run your fingers around the outside surface of the row assembly. There are four raised areas. These are the setscrews, which hold the heater plate to the spacer. Punch holes in the insulation, directly above the location of the setscrews. (**Fig. 10, 11**).
- 3. Use an allen wrench to loosen the four spacer-setscrews along the edges of the plate.
- 4. Slide the malfunctioning plate out of the spacer.
- 5. Slide the replacement plate into position. Make sure the plate is inserted squarely. Tighten set screws.
- 6. Route the wires to one end of the row and wire tie the power wires together. Also wire tie the RTD wires together. Stand the row on the opposite end adjacent to the cabinet and feed the wires into the cabinet.
- 7. Carefully slide the row far enough into the cabinet to be stable.
- 8. On the opposite side, reach into the cavity and direct the wires through the appropriate grommets to reach the power and RTD connections on the distribution board.
- 9. Slide the row assembly completely into the cabinet and return the spacers between the heater plates. Ensure the row is evenly positioned in the cabinet. There must be sufficient space to allow the bezel tabs to fit between the outside row plate and the cabinet interior wall.





Fig. 11, 12: Find the set screws under the foil insulation and push through with an allen wrench.



Fig. 13: The heater plate slides from the insulation.

10. Replace the bezels.

A CAUTION

Ensure the heater plate setscrews are tightened securely to the spacer. Tightening the setscrews will ensure the plate is properly grounded.

Cabinet Troubleshooting

The master control display and the row displays show error messages when there is a problem. The messages are shown in the matrix below along with possible causes and diagnostic tests.

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TOO COOL ** CALL SERVICE BOT ROW TEMP TOO COOL ** CALL SERVICE TOP SENSOR ERROR HI TEMP ** CALL SERVICE TOP SENSOR ERROR LOW TEMP ** CALL SERVICE BOT SENSOR ERROR LOW TEMP **	TOO HIGH • •		· -
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ERROR HITEMP CALL SERVICE BOT SENSOR ERROR HITEMP CALL SERVICE TOP SENSOR ERROR LOW TEMP** CALL SERVICE BOT SENSOR ERROR LOW TEMP 3-1			_
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ERROR HITEMP CALL SERVICE TOP SENSOR ERROR LOW TEMP** CALL SERVICE BOT SENSOR ERROR LOW TEMP 3-1		alstribution board.	
CALL SERVICE TOP SENSOR ERROR LOW TEMP** CALL SERVICE BOT SENSOR ERROR LOW TEMP** 3-1			
ERROR LOW TEMP** CALL SERVICE BOT SENSOR ERROR LOW TEMP** 3-1		1	
CALL SERVICE BOT SENSOR ERROR LOW TEMP 3-1			
ERRUR LUW TEMP **		2.1	
* Shown on master control display. ** Shown on affected row display.			

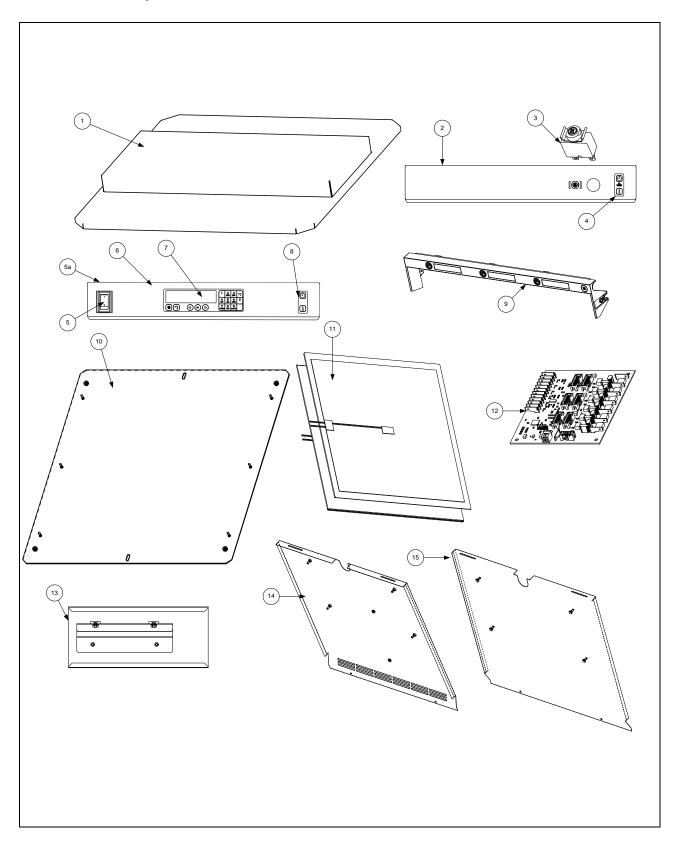
^{*} Shown on master control display. ** Shown on affected row display.

Cabinet Troubleshooting

Failure modes not accompanied by a master control display are shown below with possible causes and tests.

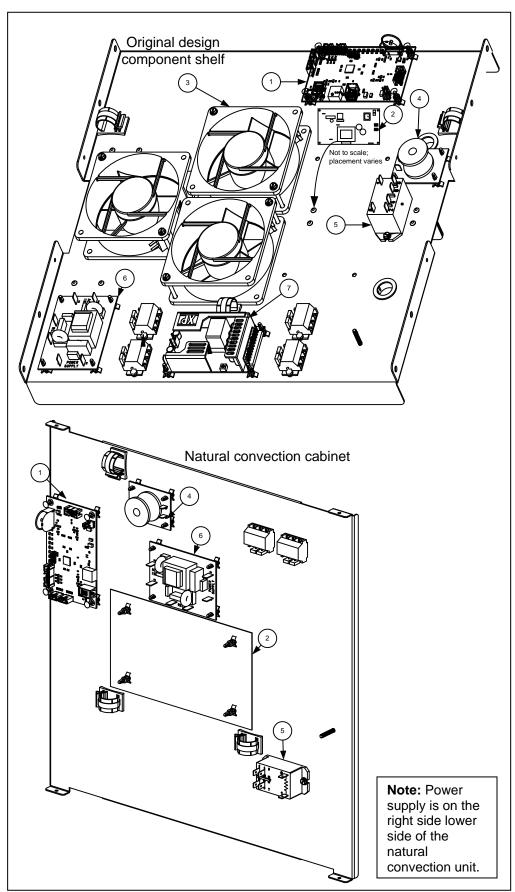
Symptom	Possible Causes	Tests
Unit fails to power up; fans don't run.	No power to cord.Blown 20 amp fuse.Circuit breaker open.	 Check for line voltage at the relay, power supply. Reset circuit breaker.
Unit powers up and fans run; a display fails to light.	Broken or improperly seated ribbon cable.Defective display.	Switch ribbon cable from functioning display to failed component to isolate problem.
Unit powers up and fans run; all displays fail to light.	Failed power supply.	Check for 5VDC at communication board and distribution boards.
Rows heat improperly or not at all.	 Improper wiring on distribution board. Defective distribution board. Defective heater. Defective sensor. 	 Ensure heater leads and power inputs on the distribution boards are properly seated. Test for 208VAC input on distribution board and 208VAC output from heater leads to heater plate when the unit is calling for heat. Switch power leads from properly operating row to faulty row to isolate problem. Check resistance of RTD lead against temperature chart. See Page 2-4. Switch RTD lead from properly operating row to faulty row to isolate problem. Test continuity of heater plate.

Parts Lists, Exploded Views



Item	Part Number	Description
1	1081897	Top Cap, with hump
*	1082519	Top Cap, Natural Convection cabinet, flat top
2	8238032	Rear Fascia, fan-cooled unit
*	8237931	Rear Fascia, natural convection
*	8237932	Rear Fascia, natural convection CE
*	8237931	Rear Fascia, 3-row
3	8074882	Circuit Breaker, 16 amp
*	8074989	USB Port, sliding cover
4	8075111	Time/Temperature switch
5	8074911	Power switch
5a	8121306	Varistor, Metal Oxide
6	8238031	Front fascia, fan-cooled unit
*	8237930	Front Fascia, natural convection
7	8075112	Master display overlay with ribbon cable
*	8075156	Master display board (circuit board in master display assembly)
8	8075111	Time/Temperature switch
9	8262781	Bezel, with boards, front with short ribbon cable
*	8262782	Bezel with boards, rear, with long ribbon cable
10	1082167	Base
11	8074857	Heater plate/RTD
12	8075508	Distribution board
13	1083357	Magnetic quick-reference card holder (natural convection units)
14	1081990	Side, 6-row, left, vented (cabinet with fans)
15	1081991	Side 6-row, right, not vented (cabinet with fans)
*	1081990	Side, 6-row, vented, right or left (natural convection cabinet sides are not side-specific)
*	1082823	Side, 3-row vented, right or left
*	8237815	Cap, Lower Heater Plate (Bottom bezel fascia, front or rear)
		Cordsets
*	8072803	CE Cordset
*	8074145	Australian Cordset
*	8072473	Domestic Cordset
*	8263096	Australian 90° Rear Exit Kit with cordset
*	8263097	Australian 90° Rear Exit Kit with cord, no plug
*	8263098	CE 90° Rear Exit Kit with Cordset
*	8263099	CE 90° Rear Exit Kit without Cordset

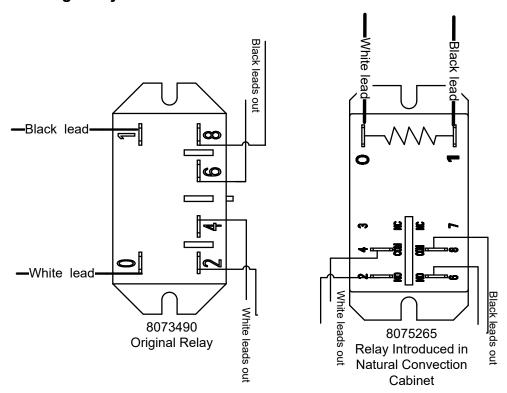
Component Shelves



Item	Part Number	Description
1	8075382	Master control board
*	8263545	Software update kit (v1.53 software)
2	1082040	LON board, domestic (non-Cenelic) Obsolete
*	1082041	LON board, international (Cenelic) Obsolete
*	1082066	LON board, international (non-Cenelic) Obsolete
3	8072665	Blower (not used in natural convection cabinets)
4	4060011	Line filter
5	8073490	Latching relay
*	8075265	Latching relay, US natural convection cabinets (see below)
6	4060010	Line Filter Board
7	8263262	Power supply (on right cabinet side in natural convection units) (includes 2-8160892)
*	8075180	Power Harness (Power Supply to Line Filter – 2-wire Black/White)
*	8160892	Insulation, Fish Paper
*		Cables
*	8074990	USB cable
*	8074916	Time/Temp 18" used for front fascia
*	8074917	Time/Temp 32" used for rear fascia
*	8074875	Master distribution
*	8074922	Power to upper distribution board
*	8074923	Power to lower distribution board

^{*}Not Illustrated

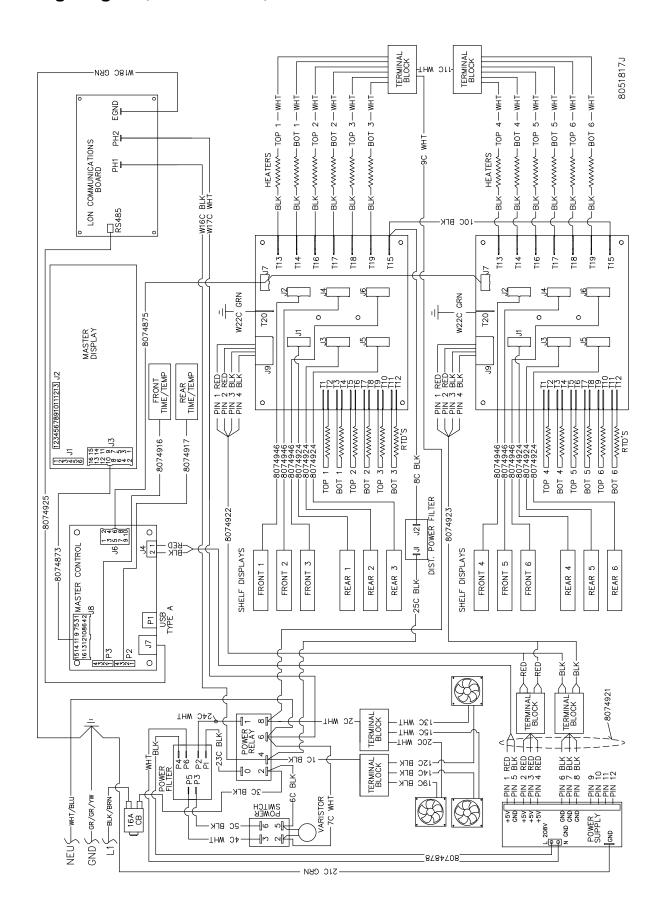
Latching Relays in US Natural Convection Cabinets



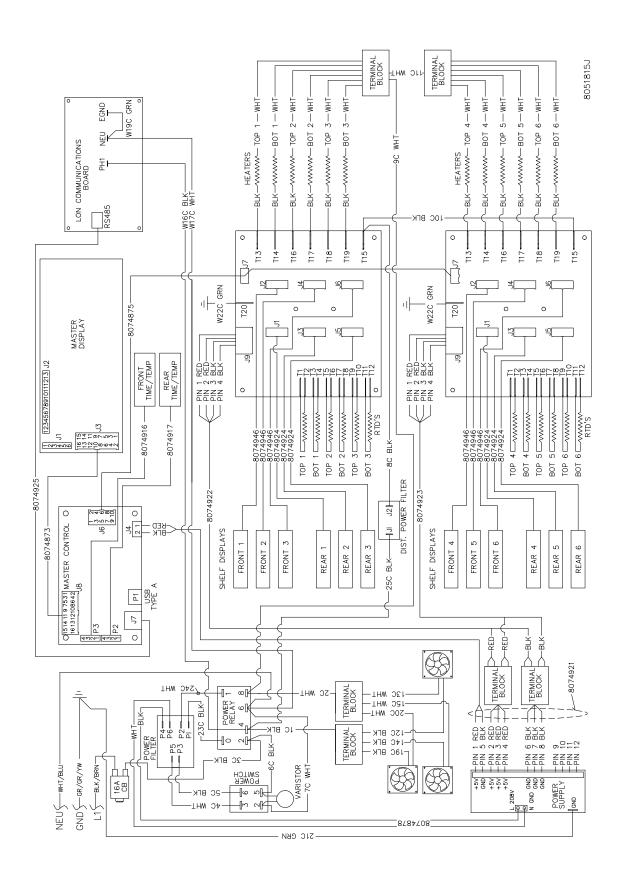
The natural convection (cabinet without fans) UHC-HD uses a different latching relay in the US. The new relay shares the same footprint as the original relay, but the terminals are laid out differently. (See diagrams above.)

The new relay can be used in all existing cabinets. However, the old relay can't be used as a service part in natural convection units in the US.

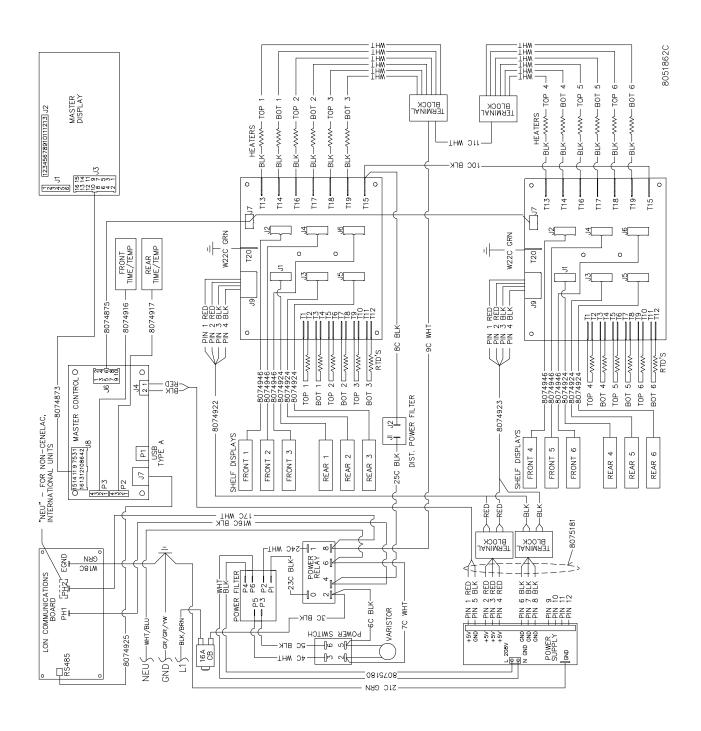
Wiring Diagram, Delta Power, L1-L2 with Bowers and LON



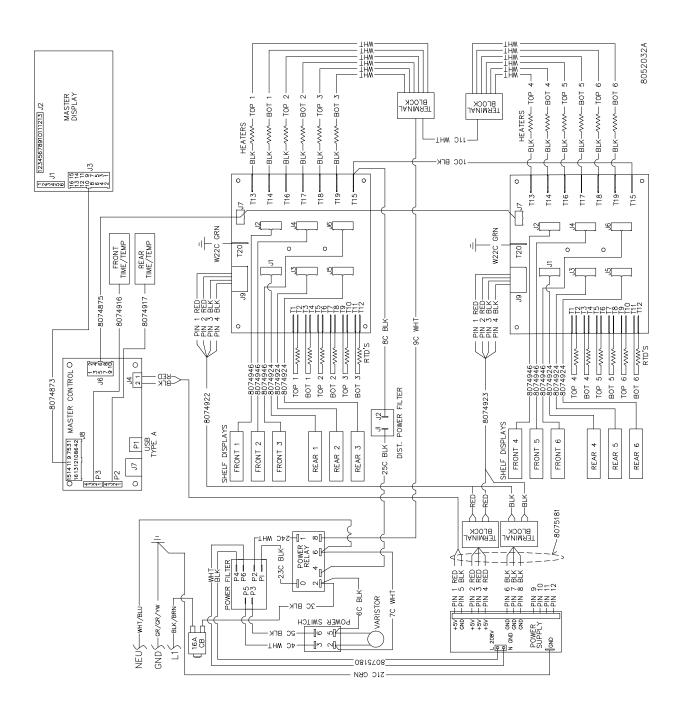
UHC-HD, WYE Power, L1-N with Blowers and LON



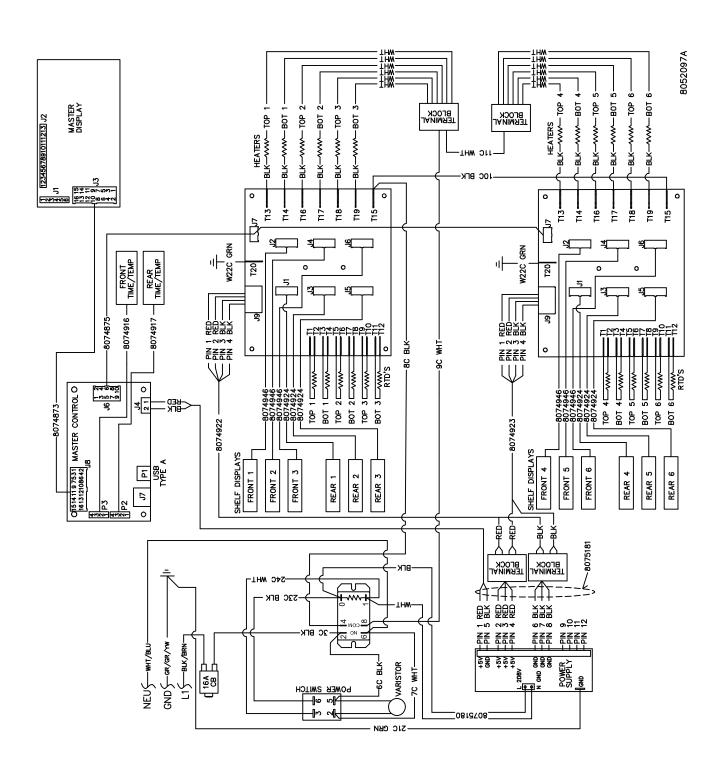
Natural Convection Wiring Diagram, Delta Power, L1-L2 with LON



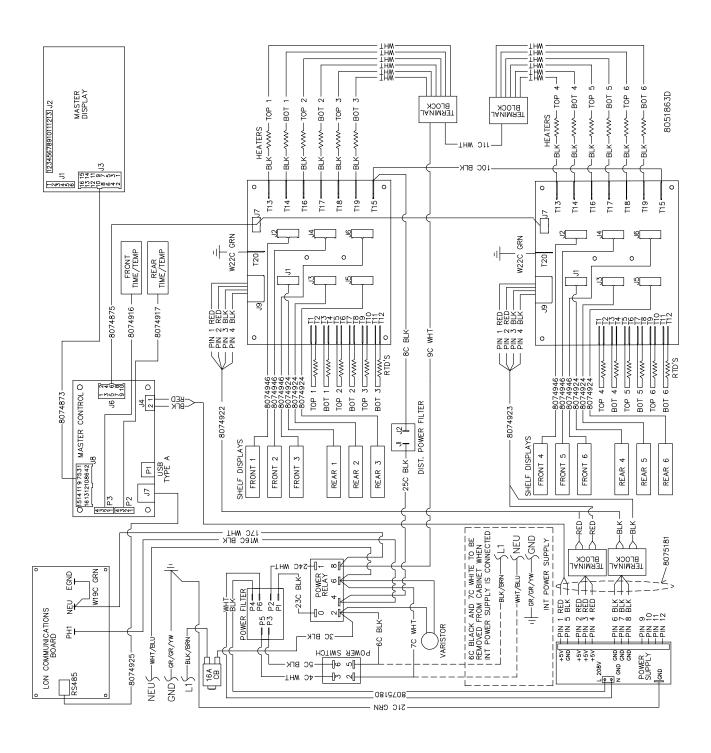
Natural Convection Wiring Diagram, Delta Power, L1-L2 without LON



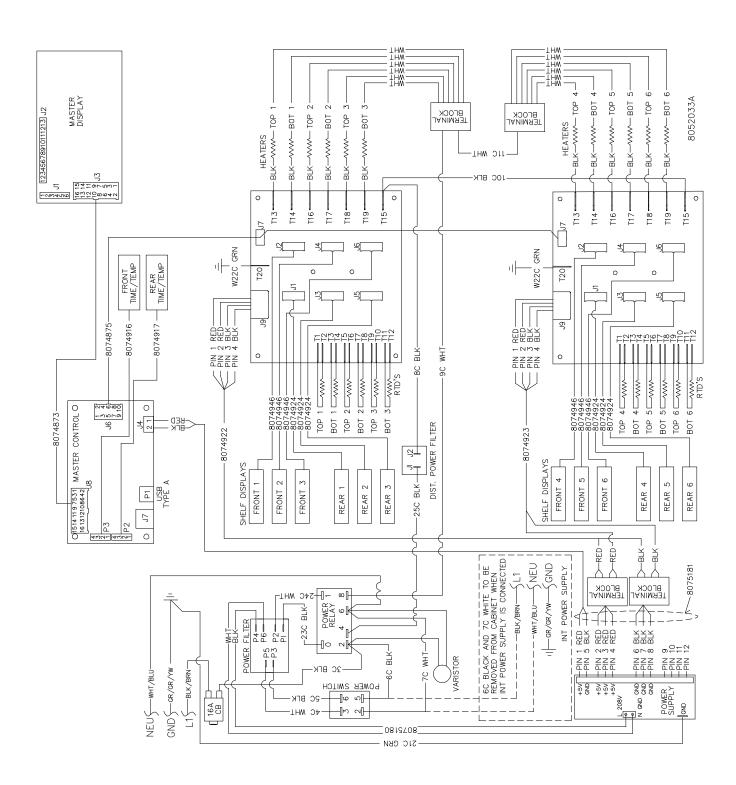
Natural Convection Wiring Diagram, Delta Power, L1-L2 without LON and without power filter



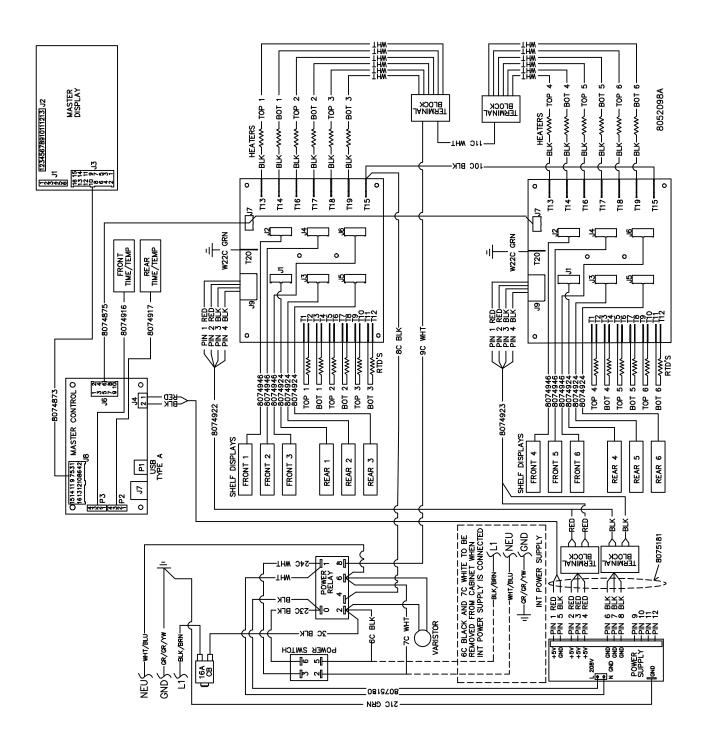
Natural Convection Wiring Diagram WYE Power L1-N with LON



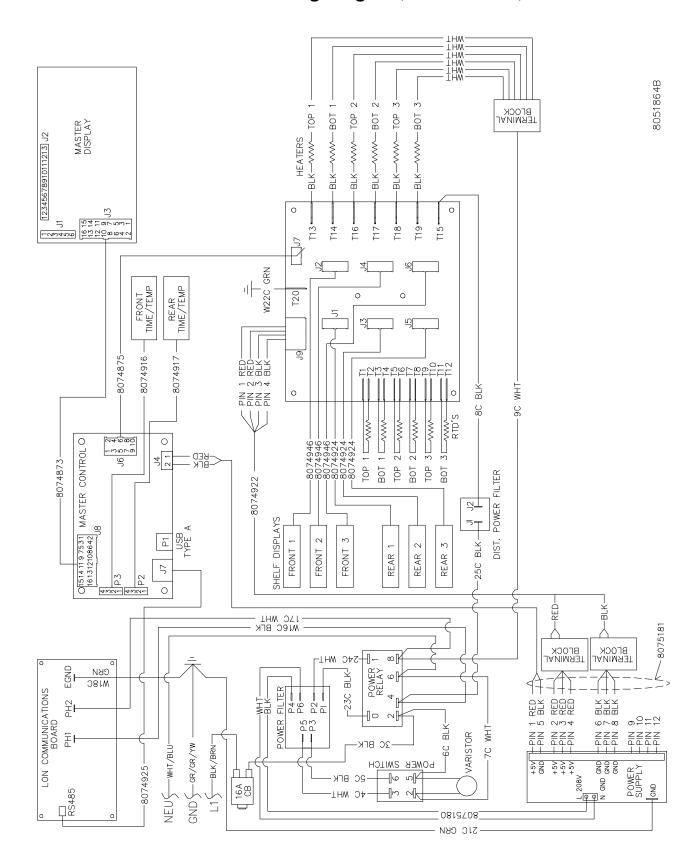
Natural Convection Wiring Diagram WYE Power L1-N without LON



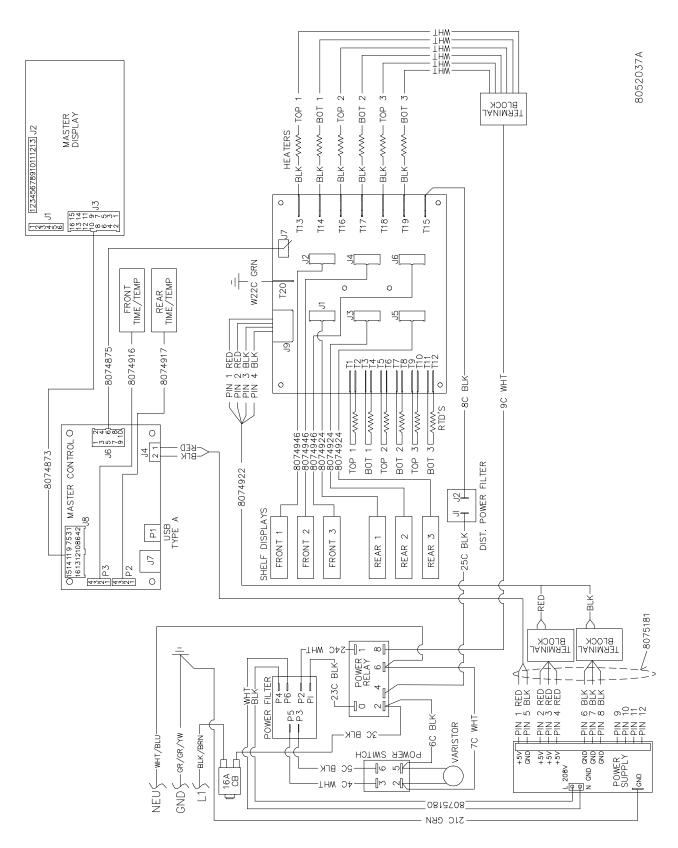
Natural Convection Wiring Diagram WYE Power L1-N without LON and without power filter



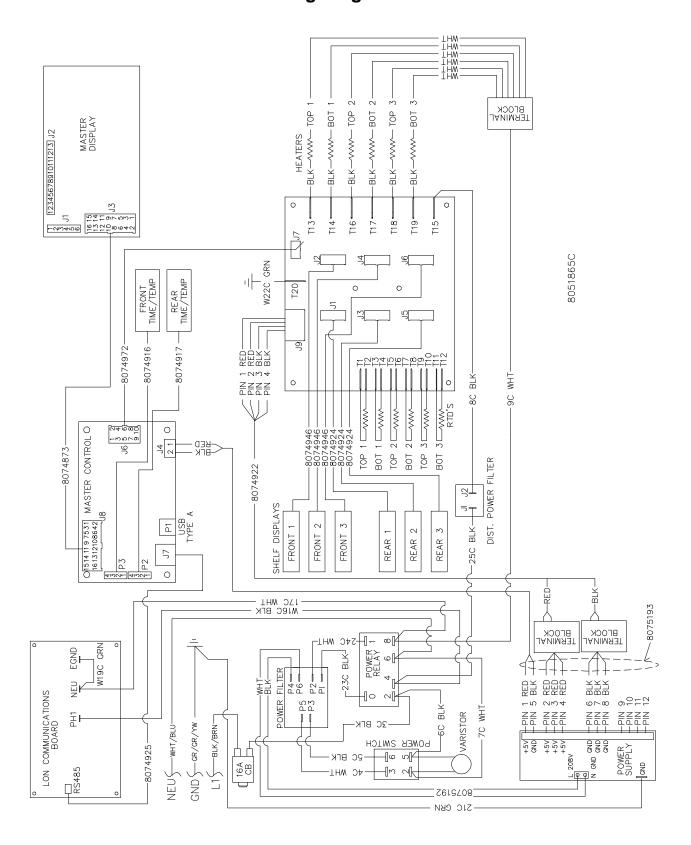
Natural Convection 3-Row Wiring Diagram, Delta Power, L1-L2 with LON



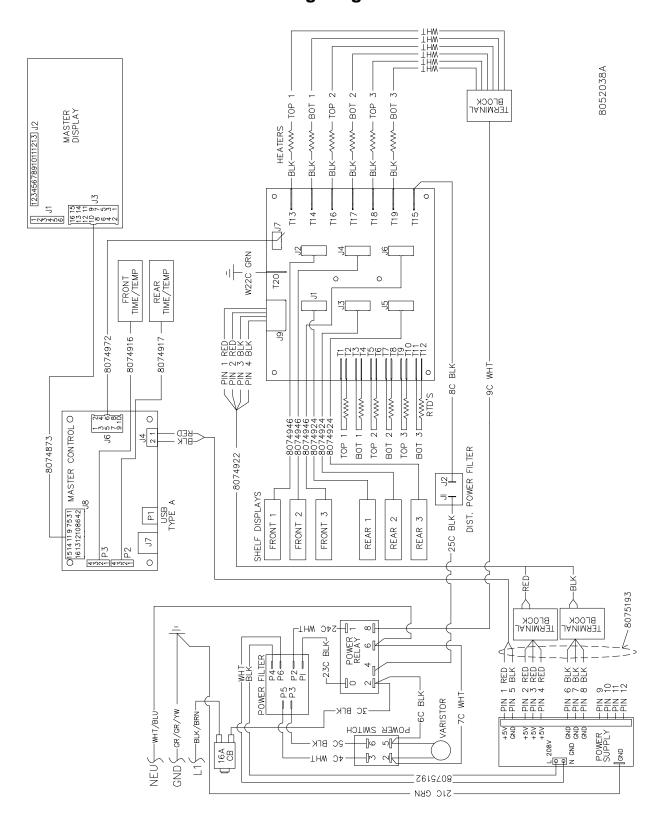
Natural Convection 3-Row Wiring Diagram, Delta Power, L1-L2 without LON



Natural Convection 3-Row Wiring Diagram WYE Power L1-N with LON



Natural Convection 3-Row Wiring Diagram WYE Power L1-N without LON





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