SERVICE
MANUAL

HEATED HOLDING CABINET

MODEL

HC - 4

HC - 5

HC - 15

HENNY PENNY
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SECTION 1. TROUBLESHOOTING

1-1. INTRODUCTION

This section provides troubleshooting information in the form of an easy to read list.

If a problem occurs during the first operation of a new cabinet, recheck the Installation Section of the Operator's Manual.

Before troubleshooting, always recheck the Operation Section of the Operator's Manual.

1-2. SAFETY

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.

The word WARNING is used to alert you to a procedure, that if not performed properly, might cause personal injury.

1-3. TROUBLESHOOTING

To isolate a malfunction proceed as follows:

1. Clearly define the problem or symptom and when it occurs.
2. Locate the problem in the troubleshooting table.
3. Review all possible causes, then one at a time work through the list of corrections until the problem is solved.

If maintenance procedures are not followed correctly, injuries and/or property damage could result.

1-3. TROUBLESHOOTING (Continued)

PROBLEM	CAUSE	CORRECTION
	OPERATION	
A. Product not holding temperature	• Doors are left open	• Keep doors closed except to load and unload product
	• Thermostat set too low	• Increase thermostat setting by moving the knob to a higher number setting
	• Gasket torn or worn	• Replace gasket per Door Gasket Replacement Section
	• Heater not working	• Check heater; replace per Heater Section
	• Blower not working	• Check blower; replace per Blower Section
	• Product held too long	• Hold product only for recommended time
	• Low or improper voltage	• Using meter, compare receptacle voltage to data plate voltage
B. Cabinet steaming - product becoming soggy	• Too much humidity inside the cabinet	• Empty water from the water pan
	• Holding product too long	• Hold product for recommended time
	• Vent not set properly (units with vent adjustment only)	• Adjust vent per Operator's Manual
C. Product dry	• No water in pan	• Remove pan and put in approximately 1" of hot water
	HEATING SYSTEM	
A. Unit will not heat	• Faulty thermostat	• Check thermostat per Thermostat Section
	• Faulty high limit	• Check high limit per High Limit Section
	• Faulty heater	• Check heater; replace per Heater Section
	• Faulty wiring	• Check wiring for loose connections or broken wires and repair as needed

1-3. TROUBLESHOOTING (Continued)

PROBLEM	CAUSE	CORRECTION
	HEATING SYSTEM (Continued)	
B. Unit will not heat to desired temperature	• Faulty blower	• Check blower; replace per Blower Section
	• Thermometer not indicating true temperature	• Check cabinet temperature with another thermometer; if necessary, replace per Thermometer Section
	• One of heaters defective	• Check heater; replace per Heater Section
	• Doors being left open too much	• Only open doors as necessary
	• Gaskets torn or worn	• Replace gasket per Door Gasket Replacement Section
	• Defective high limit on one of heaters	• Check high limit; replace per High Limit Section
C. Unit overheating	• Faulty thermostat	• Check thermostat; replace per Thermostat Section
	• Faulty blower	• Check blowers; replace per Blower Section
	VENTILATING SYSTEM	
A. Both blowers not working	• Faulty blowers	• Check blowers; replace per Blower Section
	• Faulty fuse (if equipped)	• Check fuse; replace per Fuse Section

SECTION 2. MAINTENANCE

2-1. INTRODUCTION

This section provides procedures for the testing and replacement of the various parts used within the cabinet. Before replacing any parts, refer to the Troubleshooting Section. It will aid you in determining the cause of the malfunction.

2-2. TEST INSTRUMENTS

You may use two test instruments to check the electric components.

1. A continuity light
2. An ohmmeter

When the manual refers to the circuit being closed, the continuity light illuminates or the ohmmeter reads zero unless otherwise noted. When the manual refers to the circuit being open, the continuity light will not illuminate or the ohmmeter will read 1 (one) or infinite resistance.

A continuity tester cannot be used to check coils.

2-3. REMOVAL OF THE MODULE ACCESS PANEL

In most procedures of the maintenance section, the access panel must be removed from the top of the module. This access panel can easily be removed by taking out the four screws that fasten it to the module shell.

2-4. MODULE REMOVAL

NOTICE

If the component module of the cabinet has to be removed, be sure to remove the four screws (one at each corner) before lifting it from the unit. Also, when work has been completed on the module, be sure to relocate it properly and reinstall the screws that fasten the module to the cabinet. Failure to do so might cause the unit to perform inadequately.

2-5. REMOVAL OF MODULE HOUSING

If the need for extensive service is required on the module components, the entire outer shell of the module can be removed to make servicing easier. To remove the outer shell of the module, follow these procedures:

Step 2

Step 3

Step 4

Step 5

1. Remove the module from the cabinet per Module Removal Section.
2. Remove the six (6) screws that are located on the sides of the module.
3. Remove the four (4) screws located at the corners of the module top.
4. Remove the screws from the control panel and the back panel, that fasten them to the module housing.
5. Lift the shell of the module off the unit.
6. When work is completed, reassemble in reverse order.

2-6. FUSE

Step 2

Step 3

Step 4

NOTICE

All units are not equipped with fuses.

If both blowers quit working at the same time:

1. Remove electrical power supplied to the cabinet.

To avoid electrical shock or property damage, move the power switch to OFF and disconnect main circuit breaker, or unplug cord at wall receptacle.

2. Remove the cap from the fuse holder by turning it counter-clockwise. (Located above the power cord.)

3. Pull the fuse from the holder.

4. Check the fuse for defectiveness by putting both leads of the ohmmeter or continuity light on opposite ends of the fuse. The fuse should be closed, or read no resistance. If the fuse is found to be defective, replace it with a new one. Be sure to use an identical fuse as the one being replaced.

5. Replace the cap to the fuse holder.

6. Reconnect the electrical supply to the cabinet.

2-7. POWER SWITCH

Step 3

Step 4

1. Disconnect the electrical supply to the cabinet.

To avoid electrical shock or property damage, move the power switch to OFF and disconnect main circuit breaker, or unplug cord at wall receptacle.

2. Remove the four (4) screws from the control panel and pull it down.

3. Remove all wires from the switch. Check across the two terminals of the switch for continuity. With the switch in the ON position, the circuit should be closed. With the switch in the OFF position, the circuit should be open. If the switch is found to be defective, replace it by continuing with the following instructions in this section.

4. Loosen the nut holding the switch on the back side of the control panel and then remove the nut on the front of the control panel.

5. Remove the switch.

6. Install a new switch in reverse order.

7. Reconnect the wires to the switch on the same terminals that they were previously on.

8. Push the control panel back in place and put in screws.

9. Reconnect the electrical supply to the cabinet.

2-8. THERMOSTAT

Step 5

Step 7

Step 8

Step 11

1. Disconnect the electrical supply to the cabinet.

To avoid electrical shock or property damage, move the power switch to OFF and disconnect main circuit breaker, or unplug cord at wall receptacle.

2. Remove the access panel from the top of the module.
3. Remove the four (4) screws from the control panel and pull it down.
4. Remove the wires from the thermostat. With the thermostat set at the maximum setting (all the way clockwise), the circuit should be closed. With the thermostat in the 0, or OFF, position (all the way counterclockwise), the circuit should be open. If the thermostat is found to be defective, replace it by continuing with the following instructions in this section.
5. Remove the four (4) nuts that hold the blower box to the cabinet.
6. Lift the blower box up to expose the thermometer and thermostat bulbs.
7. While holding the blower box, remove the two (2) nuts that secure the bulb retaining clamps and remove the thermostat bulb from the clamps.
8. Using a 5/64” Allen wrench, loosen the two (2) set screws in the thermostat knob and remove the knob.
9. Remove the two (2) nuts that hold the thermostat bracket to the control panel.
10. Remove the thermostat shaft extension with a 1/16” Allen wrench.
11. Remove the two (2) screws that hold the thermostat to the bracket.
12. Remove the thermostat from the unit.

2-8. THERMOSTAT (Continued)

13. Install a new thermostat in reverse order.

14. Reposition the blower box and secure it with the four (4) nuts previously removed.

Be sure that both the thermometer and thermostat capillary tubes pass through the notches in the front corners of the blower box. Failure to do so could permanently damage the thermometer or thermostat and cause improper operation of the cabinet.

15. Reseal the notches in the blower box corners with silicone rubber sealant.

16. Push the control panel back in place and put in screws.

17. Replace the access panel to the module.

18. Reconnect the electrical supply to the cabinet.

2-9. INDICATING LIGHTS

This section should be followed when replacing either of the two (2) indicating lights in the control panel.

1. Disconnect the electrical supply to the cabinet.

To avoid electrical shock or property damage, move the power switch to OFF and disconnect main circuit breaker, or unplug cord at wall receptacle.

2. Remove the four (4) screws from the control panel and pull it down.

3. Cut the light wires just behind the body of the light.

2-9. INDICATING LIGHTS (Continued)

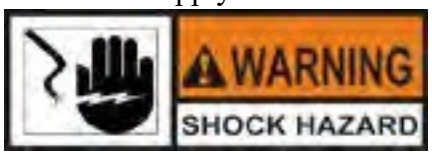
Step 4

4. Remove the light by squeezing the retainers on the body and pushing the light out through the control panel.
5. Install a new light by pushing it through the front of the control panel until it snaps securely in place.
6. Strip the ends of the cut wires and connect them to the new light with wire nuts.
7. Push the control panel back in place and put in screws.
8. Reconnect the electrical supply to the cabinet.

2-10. THERMOMETER

Step 4

1. Disconnect the electrical supply to the cabinet.



To avoid electrical shock or property damage, move the power switch to OFF and disconnect main circuit breaker, or unplug cord at wall receptacle.

2. Remove the access panel from the top of the module.
3. Remove the four (4) screws from the control panel and pull it down.

Step 6

4. Remove the four (4) nuts that hold the blower box to the cabinet.
5. Lift the blower box up to expose thermometer and thermostat bulbs.
6. While holding the blower box, remove the two nuts that secure the bulb retaining clamps and remove the thermometer bulb from the clamps.
7. Remove the two (2) nuts that hold the mounting brackets on the back of the thermometer body.
8. Remove the thermometer by pulling the body and capillary tube through the control panel.
9. Install a new thermometer in reverse order.

Step 7

10. Reposition the blower box and secure it with the four (4) nuts previously removed.

2-10. THERMOMETER (Continued)

Step 8

CAUTION

Be sure that both the thermometer and thermostat capillary tubes pass through the notches in the front corners of the blower box. Failure to do so could permanently damage the thermometer or thermostat and cause improper operation of the cabinet.

11. Reseal the notches in the blower box corners with silicone rubber sealant.
12. Replace the access panel to the top of the module.
13. Push the control panel back in place and put in screws.
14. Reconnect the electrical supply to the cabinet.

2-11. HEATER

Step 3

Step 5

NOTICE

This section should be followed when replacing either of the two (2) heaters in the cabinet. If there is a heating problem, both heaters should be checked.

1. Disconnect the electrical supply to the cabinet.

To avoid electrical shock or property damage, move the power switch to OFF and disconnect main circuit breaker, or unplug cord at wall receptacle.

2. Remove the access panel from the top of the cabinet.
3. Remove the two (2) screws holding the high limit to the heater.
4. Remove the wires attached to the two (2) heater terminals.
5. Remove the two (2) screws holding the heater to the module.

2-11. HEATER (Continued)

Step 6

6. Remove the heater.
7. Install a new beater in reverse order.

NOTICE

If you have a 240V, 3,000 W unit, you must install the new heater so that the coils are spread furthest apart where air from the blower enters the heater.

8. Reattach the heater wires.
9. Refasten the high limit to the new heater.
10. Replace the access panel to the module.
11. Reconnect the electrical supply to the cabinet.

2-12. HIGH LIMIT

Step 5

NOTICE

This section should be followed when replacing either of the two (2) high limits in the cabinet. If there is a heating problem in the cabinet, both high limits should be tested.

1. Disconnect the electrical supply to the cabinet.

To avoid electrical shock or property damage, move the power switch to OFF and disconnect main circuit breaker, or unplug cord at wall receptacle.

2. Remove the access panel from the top of the cabinet.
3. Remove the wires attached to the high limit.
4. Check across high limit terminals for continuity. As long as cabinet temperature is below 210°F and blower has been operating properly, high limit should be closed, or read no resistance. If high limit is found to be defective, replace it by continuing with the following instructions.
5. Remove two (2) screws that hold high limit to the heater.

2-12. HIGH LIMIT (Continued)

6. Remove the high limit.
7. Install a new high limit in reverse order.
8. Reconnect the two wires to the high limit.
9. Replace the access panel to the module.
10. Reconnect the electrical supply to the cabinet.

2-13. BLOWER

Step 3

Step 4

Procedures for blower motor replacement are the same on both blowers.

1. Disconnect the electrical supply to the cabinet.

To avoid electrical shock or property damage, move the power switch to OFF and disconnect main circuit breaker, or unplug cord at wall receptacle.

2. Remove the access panel from the top of the cabinet.
3. Remove the three (3) screws that fasten the blower motor to the blower housing.
4. Cut the two (2) blower wires approximately 2” away from the blower.
5. Lift the blower motor and wheel out of the blower housing.
6. If replacing motor, fan, and wheel as an assembly, install new assembly in reverse order. If replacing just the motor, continue onto step 7.

2-13. BLOWER (Continued)

Step 7

Step 8

NOTICE

The blower motor can be ordered as an assembly. This will include the motor, the fan, and the wheel. Normally, just the motor would need replacing if found to be defective. If you are just replacing the motor, continue with the following procedures.

7. The fan can be pulled off the shaft of the motor.
8. With a 5/64” Allen wrench, loosen the set screw that holds the blower wheel to the motor shaft and remove the wheel.
9. Remove the four (4) screws that hold the blower cover to the motor.
10. Install a new blower motor in reverse order.
11. Be sure to put the spacers back between the blower cover and the motor.

NOTICE

When replacing a blower motor, be sure that the motor coil is positioned away from the heater when reinstalling.

12. Reconnect the two wires to the new blower by stripping the wire ends and fastening with wire nuts.
13. Replace the access panel to the module.
14. Reconnect the electrical supply to the cabinet.

2-14. DOOR GASKET REPLACEMENT

Steps 1 & 2

1. Pull the gasket to the side to expose the screws that hold the retainer to the cabinet.
2. Loosen the screws around the full outside perimeter of the gasket.
3. With the screws loose, the gasket should slide out from under the retainer.
4. Remove the gasket and replace with a new one by reversing the above procedures.

2-15. OPERATING CONTROLS - COUNTDOWN TIMERS (CDT)

These instructions are for both 13 and 5 count down timers.

Start-Up

1. Turn the power switch to the ON position.
2. The display shows the increase in temperature, indicating the unit is heating.
3. When the preset temperature is reached, the HEAT ON LED turns off and the display stays at the preset temperature.

Temperature Regulation

1. Press and hold the PROGRAM button.
2. The control beeps and “Prog Enter Code” shows in display.
3. Enter access code 1, 2, 3.
4. Press the INCREASE or DECREASE buttons to change the flashing setpoint temperature.
5. Press and hold the PROGRAM button to set the temperature and exit the programming mode.

Timer Operation

Each of the timers can be started, stopped, or cancelled, and not affect the status of the other timers.

1. Press the desired timer button.
2. The time remaining shows in the display.
3. At end of time cycle, an alarm sounds and “0:00” is displayed.
4. Press the timer to stop alarm and “---” is displayed.

Press and hold an active timer to cancel.

2-15. CONTROLS - COUNTDOWN TIMERS (CDT) (Continued)

Timer Regulation - All timers can be set to a different starting time.

1. Press and hold the PROGRAM button.
2. The control beeps and “Prog Enter Code” shows in display.
3. Enter access code 1, 2, 3.
4. Press the PROGRAM button, and “---” is displayed, along with all the timer settings.
5. Press the desired timer and the starting time flashes.
6. Press the INCREASE and DECREASE buttons to change the starting time.
7. Press the timer button to set the new starting time, and now a different timer button can pressed, and it’s starting time can be changed.
8. When finished setting timers, press and hold the PROGRAM button to exit programming.

Exit the program mode at any time by pressing and holding the PROGRAM button. Also, if no buttons are pressed for 2 minutes, programming is exited automatically.

Timing Through Power Down

If a power failure occurs while a timer is running, the timer resumes the countdown when power is restored.

2-15. CONTROLS - COUNTDOWN TIMERS (CDT) (Continued)

Special Program Mode - Consists of Setup Mode and Tech Mode.

Setup Mode

- Fahrenheit or Celsius
- Initialize System - One button programming for times and temperatures

Fahrenheit or Celsius

1. Press and hold the PROGRAM button for 4 seconds.
2. "SetUP" and "Tech" are displayed.
3. Press a timer button under the word "SetUP".

   Ex: **Setup**

1	2	Press either 1 or 2.

4. Enter access code 1, 2, 3.
5. "SetUP deg. F" is displayed.
6. Press the INCREASE or DECREASE buttons to toggle from "F" (Fahrenheit) and "C" (Celsius).
7. When correct setting displays, press the PROGRAM button to move to initialize system, or press and hold the PROGRAM button to exit programming.

   CE and international units must have the temperature readings in Celsius. Follow above procedures and set to "C".

Initialize System

1. Press and hold the PROGRAM button for 4 seconds.
2. "SetUP" and "Tech" are displayed.

2-15. CONTROLS -COUNTDOWN TIMERS (CDT) (Continued)

Initialize System (Continued)

3. Press a timer button under the word “SetUP”.

   Ex: “SetUP”

   [1] [2] Press either 1 or 2.

4. Enter access code 1, 2, 3.

5. “SetUP deg. F” is displayed.

6. Press PROGRAM button and “SetUP init sys” is displayed.

7. Press and hold either the INCREASE or DECREASE button.

8. The control beeps and the display counts down, 5, 4, 3, 2, 1, 0.

9. When display reaches “0”, release the button and the initialization is complete.

If the INCREASE or DECREASE button is released before “0” is displayed, the control will not initialize.

10. Press the PROGRAM button to return to the Fahrenheit/Celsius mode, or press and hold the PROGRAM button to exit programming.

Tech Mode

- Output test - heaters
- CPU calibration
- Temperature calibration
- Display tests
- Push-button test
- Total initialization

NOTICE

The Tech Mode is mostly used at the factory level. The output tests and temperature probe calibration are given below. For further information, call the Technical Services Department at Henny Penny, 1-800-417-8405, or 1-937-456-8405.

2-15. CONTROLS - COUNTDOWN TIMERS (CDT) (Continued)

Output System (Continued)

1. Press and hold the PROGRAM button for 4 seconds.
2. "SetUP" and "Tech" are displayed.
3. Press a timer button under the word "Tech".

   Ex: "Tech"

   [4] [5] Press either 4 or 5.
4. Enter access code 1, 1, 2, 2, 1, 1, 2, 2.
5. "outP test Htr" is displayed.
6. Press the 5 timer button (under "Htr") to turn heat and heat LED on and off.
7. Press the PROGRAM button to move to the next step, or press and hold the PROGRAM button to exit programming.

Temperature Calibration

1. Press and hold the PROGRAM button for 4 seconds.
2. "Setup" and "Tech" are displayed.
3. Press a timer button under the word "Tech".
   Ex: "Tech"

   [4] [5] Press either 4 or 5.
4. Enter access code 1, 1, 2, 2, 1, 1, 2, 2.
5. "outP test Htr" is displayed.
6. Press the PROGRAM button 3 times until "CAL OFS Hi Probe 185" is displayed.
7. Press and hold number 1 timer (under "CAL"), while pressing the INCREASE and DECREASE buttons and set the display to match the actual cabinet temperature.
8. Press the PROGRAM button to move to the next step or press and hold the PROGRAM button to exit programming.

2-16 HOW TO REPLACE LED STRIPS

1) Loosen the screw.

2) Lift up the clamp.

3) Remove the clear tube.

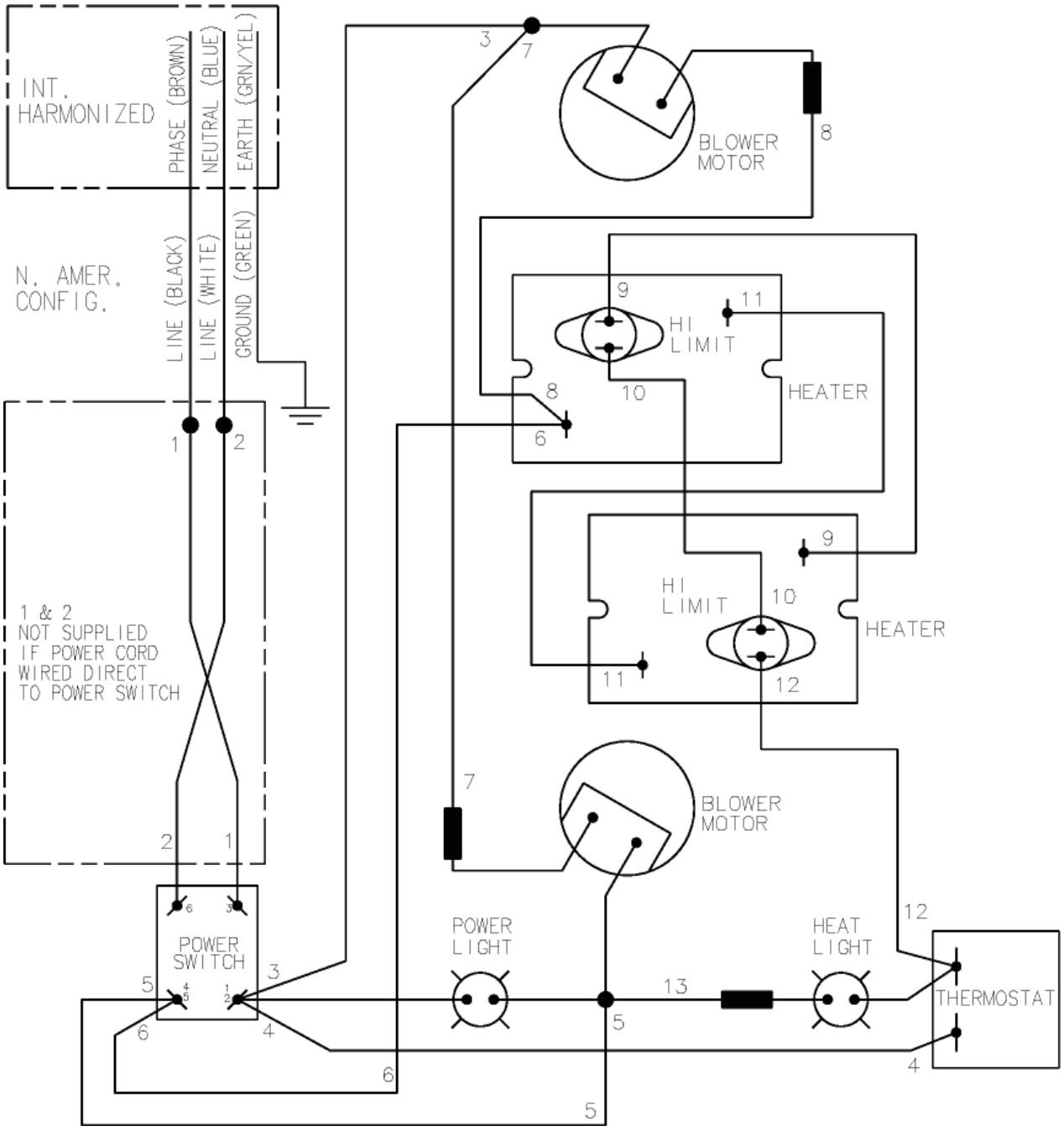
4) Unscrew the plastic connector, and then pull out the LED strip.

5) Plug in the new LED and snug the connector. .

NOTE: MUST ALIGN THE NOTCH ON MALE AND FEMALE CONNECTORS BEFORE PLUG IN .

2.17 Wiring Diagrams

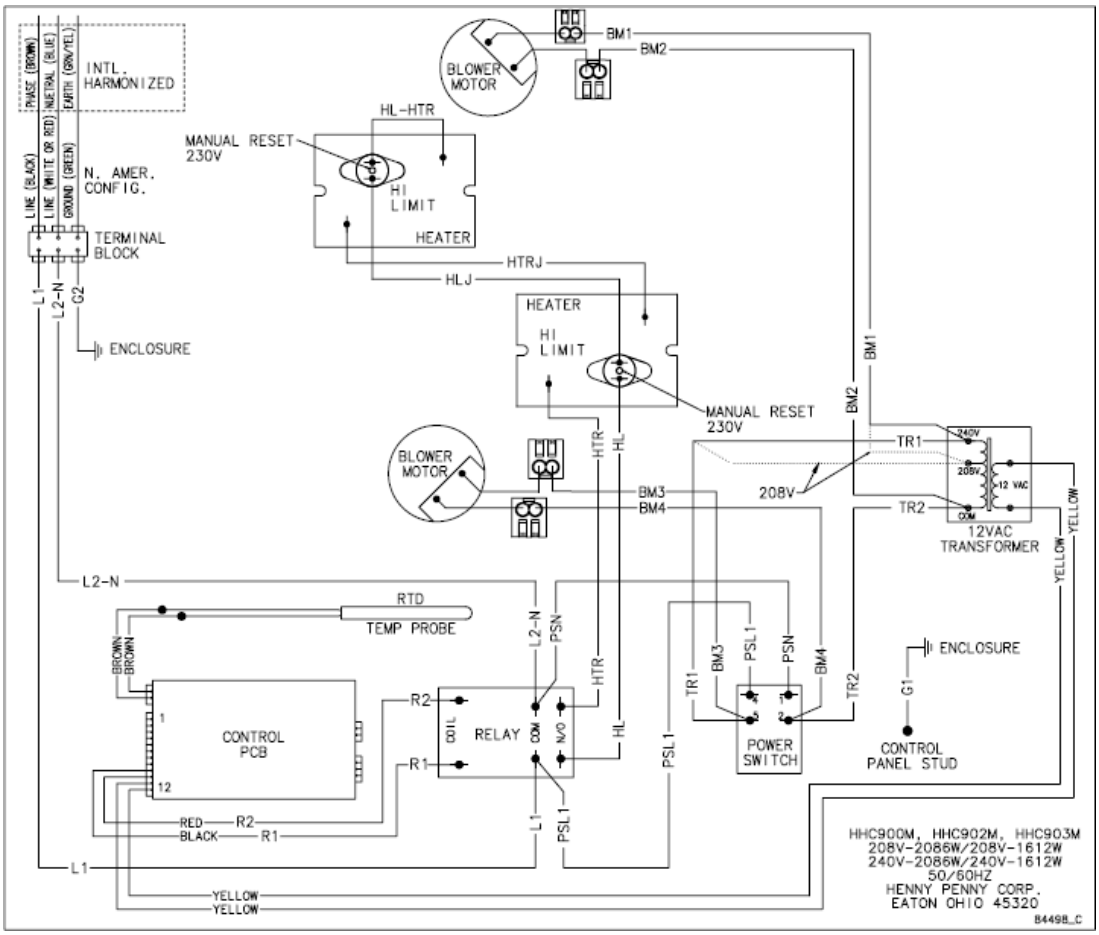
HC5, HC15 Electro Mechanical Control Wiring Diagram



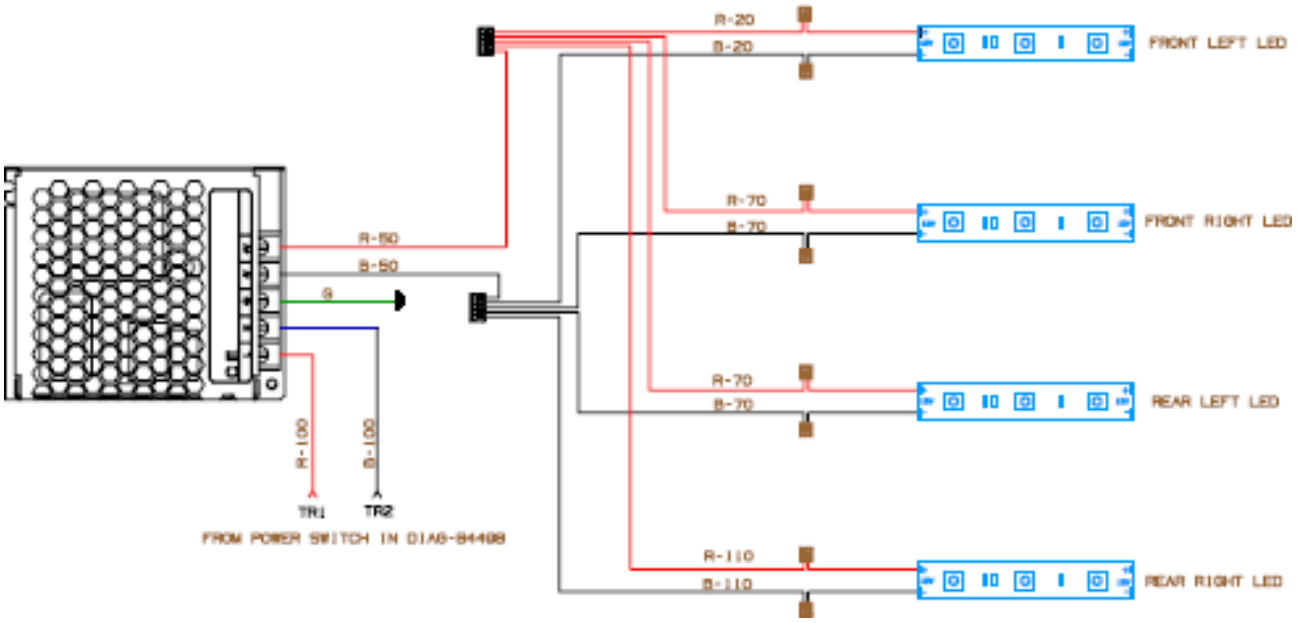
27240

208-240V/50 or 60 Hz/1 Phase

HC4, HC5, HC15 Electronic Control Wiring Diagram



LED Option Wiring Diagram



SECTION 3. PARTS INFORMATION

3-1. INTRODUCTION

This section identifies and lists the replaceable parts of the Henny Penny Model heated holding cabinet.

3-2. GENUINE PARTS

Use only genuine Henny Penny parts in your cabinet. Using a part of lesser quality or substitute design may result in cabinet damage or personal injury.

3-3. HOW TO FIND PARTS

To find items you want to order from the Parts List, proceed as follows:

1. Referring to the illustration in this section, find the part item number of the part needed.

2. Find the item number in the parts list, which shows the Henny Penny part number, a description of the part, any model or usage limitations, and the quantity of parts used.

3-4. HOW TO ORDER

Once the parts you want to order have been found in the Parts List, write down the following information:

Example:

Item number 44
Part number 14635
Description Power Switch

From the data plate list the following information:

Example:
Product number HC15.101
Serial number DH1901001
Voltage 240

3-4. HOW TO ORDER (Continued)

The following table has been provided as a sample format for you to use in preparing your spare parts orders. By providing all the entries, your distributor will be able to ensure the correct parts will be sent to you. Also, by prepayment your order will be expedited.

FROM PARTS LIST			YOUR ORDER		
Item Number	**Part Number**	**Description**	**Quantity Ordered**	**Price Each**	**Total**
46	25183	Thermometer			
Product No. HC-15		Serial No. 00179		Voltage 120	

3-5. PRICES

Your distributor has a priced parts list and will be glad to inform you of the cost of your parts order.

3-6. DELIVERY

Commonly replaced items are stocked by your distributor and will be sent out when your order is received. Other parts will be ordered by your distributor from Henny Penny Corporation. Normally, these will be sent to your distributor within three working days.

3-7. WARRANTY

All replacement parts (except lamps and fuses) are warranted for 90 days against manufacturing defects and workmanship. If damage occurs during shipping, notify the sender and the carrier at once so that a claim may be properly filed. Refer to warranty in the front of this section for other rights and limitations.

3-8. RECOMMENDED SPARE PARTS FOR DISTRIBUTORS

Recommended replacement parts, stocked by your distributor, are indicated with √ in the parts lists. Please use care when ordering recommended parts, because all voltages and variations are marked. Distributors should order parts based upon common voltages and equipment sold in their territory.

Electromechanical Control Module Assembly - HC5, HC15

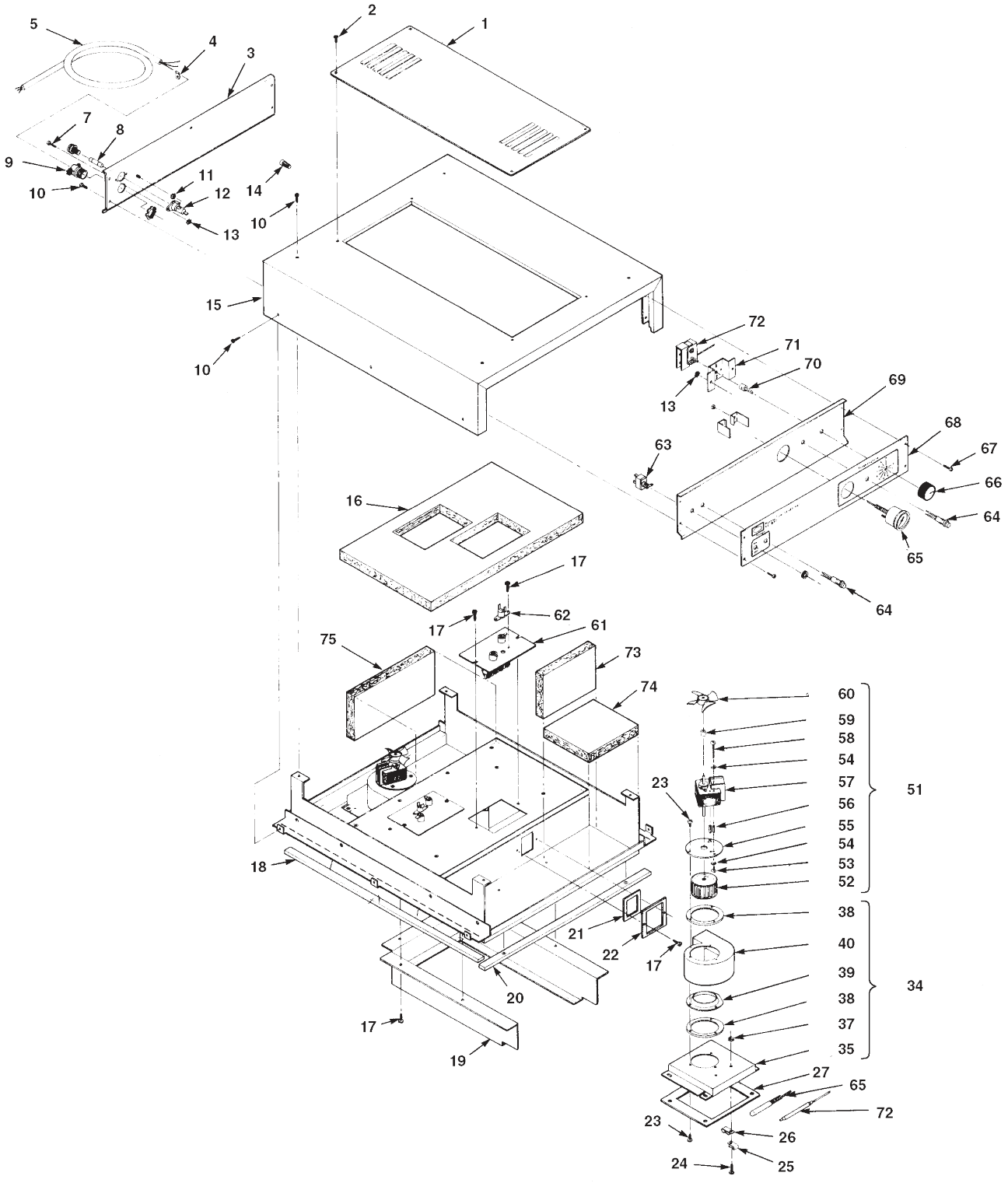


Figure 3-4. Control Module Assembly

Item No.	Part Number	Description	Qty.	Stock Type
1	72312	Louvered access panel	1	
2	SC02-023	8-32 x 1/2 in. PH screw	4	
3	72317	Rear panel	1	
4	EC02-004	#10 Terminal flag	1	
5	175732	240V Power cord assembly	1	
7	SC01-074	6-32 x 1/4 in. PH screw	2	
9	49778	¾ Cable connector	1	
10	SC02-023	8-32 x 1/2 in. PH screw	15	
11	NS02-001	10-32 Hex keps nut	1	
15	84607	Top enclosure	1	
16	26225	Cover insulation	1	
17	SC02-041	8-18 x 7/16 in. PH External torx screw	18	
18	25620	Seal	2	
19	25670	Cradle	1	
20	25624	Seal	2	
21	25619	Blower outlet gasket	2	
22	25618	Gasket retainer	2	
23	SC02-041	8-18 x 7/16 in. PH Internal torx screw	2	
24	SC01-074	10-32 X 1/2 in. PH screw	2	
25	EF02-031	¼ x 3/8 in. Clamp	2	
26	EF02-003	Wire tie	4	
27	25627	Gasket	2	
34	87097	Blower box assembly	2	
35	72914	- Blower rear box	1	
37	NS02-001	- Nut	2	
38	25698	- Blower plate gasket	2	
39	25622	- Inlet flange	1	
40	25623	- Blower housing	1	
51	84513	240V Blower motor assembly	2	
52	52240	- Internal blower wheel	1	
53	SC01-023	- Screw	4	
54	LW02-010	- Lockwasher	4	
55	37157	- Blower plate	1	
56	81606	- Motor spacer	4	
57	25752	- 240V Motor	1	A
58	SC01-091	- Screw	4	
59	25768	- Fan spacer	1	
60	25706	- Cooling fan	1	A
61	51279	120V 1000W Heater	2	A
62	18201	High limit thermostat	2	A
63	70046	Power switch	1	A
64	16624	Red indicator light	2	A
65	14250	Thermometer	1	A

66	25863	Thermostat knob	1	
67	SC02-030	8-32 X 3/8 in. PH screw	4	
68	87065	Control decal	1	
69	72440	Control panel	1	
71	25241	Thermostat mount bracket	1	
72	14209	Thermostat with clips	1	A
73	EC02-004	¼ in. 10-12 AWG Terminal connector	1	
74	79526	Lever nut	2	B
*Not shown / Stock Type: A - Truck B - Distributor				

HC15 Cabinet Assembly

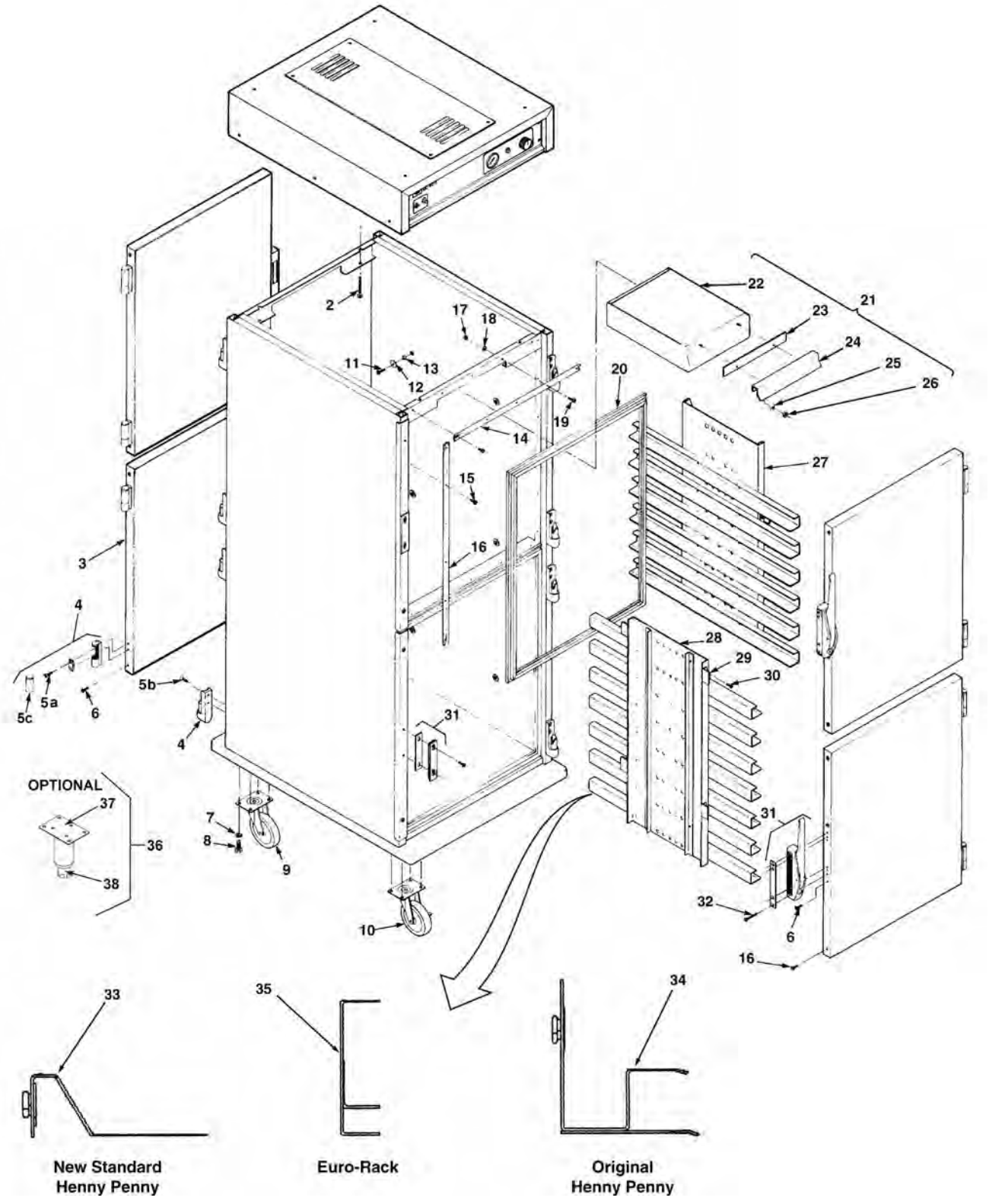
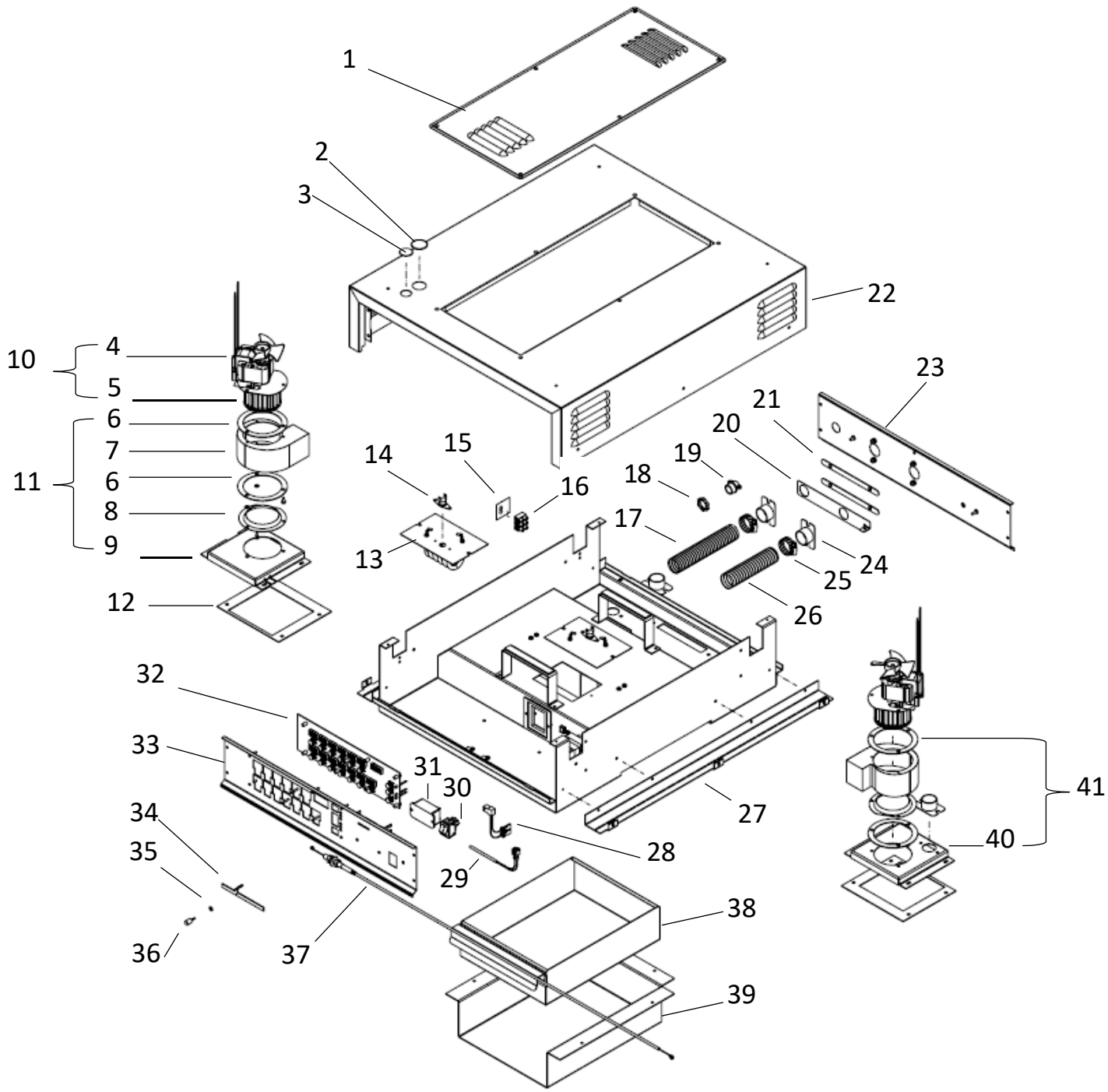
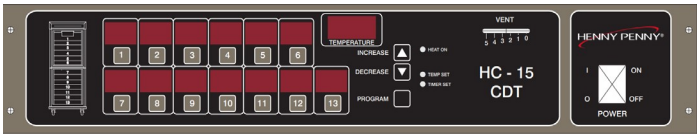


Figure 3-5. Cabinet Assembly

Item No.	Part Number	Description	Qty.	Stock Type
2	SC01-170	#10-32 x 2 ½ PH screw	4	
2*	LW02-005	Lockwasher	4	
2*	WA01-022	Flat washer	2	
2*	37151	Spacer	2	
3	84549	Glass door assembly, HC15	AR	
3	84553	Stainless steel door assembly	AR	
3	85393	Flip door assembly	AR	
4	14271	Hinge kit	AR	
5A	SC01-086	- #10-32 x 1 PH screw	AR	
5B	SC01-225	- #10-32 x ¾ PH screw	AR	
5C	27146	Chrome hinge pin cover	AR	
6	SC01-074	#10-32 x ½ PH screw	AR	
7	LW01-002	¼ Split ring lockwasher	16	
8	SC01-039	1/4-20 UNC X 1 in. hex head screw	8	
9	27155	5 in. Caster	2	
10	27154	5 in. Caster with brake	2	
11	SC01-075	#10-32 x 3 in. PHT screw	12	
12	25695	Washer	12	
13	25644	Spacer	12	
14	25687	Retainer	8	
15	SC02-041	#8-18 x 7/16 in. External torx screw	24	
16	25689	Retainer	AR	
17	NS01-008	#8 - 32 Hex nut	10	
18	LW02-006	#8 Internal lockwasher	10	
19	27944	#8 Cap screw	10	
20	25643	Gasket door	4	B
21	81422	Water box assembly with handle	1	
22	81421	- Water box and stud assembly	1	
23	25646	- Wiper	1	
24	25685	- Pull	1	
25	LW02-005	- #10 internal lockwasher	2	
26	NS03-030	- #10-32 acorn nut	2	
27	52345	Upper tray air duct	2	
28	52346	Lower tray air duct	2	
31	14272	Latch screw kit	4	
32	SC01-186	#10-32 x 1 ¾ in. PH screw	16	
48*	58047	Side insulation	1	
*Not shown / Stock Type: A - Truck B - Distributor				

Exploded for HC-15 with Electronic CDT Control



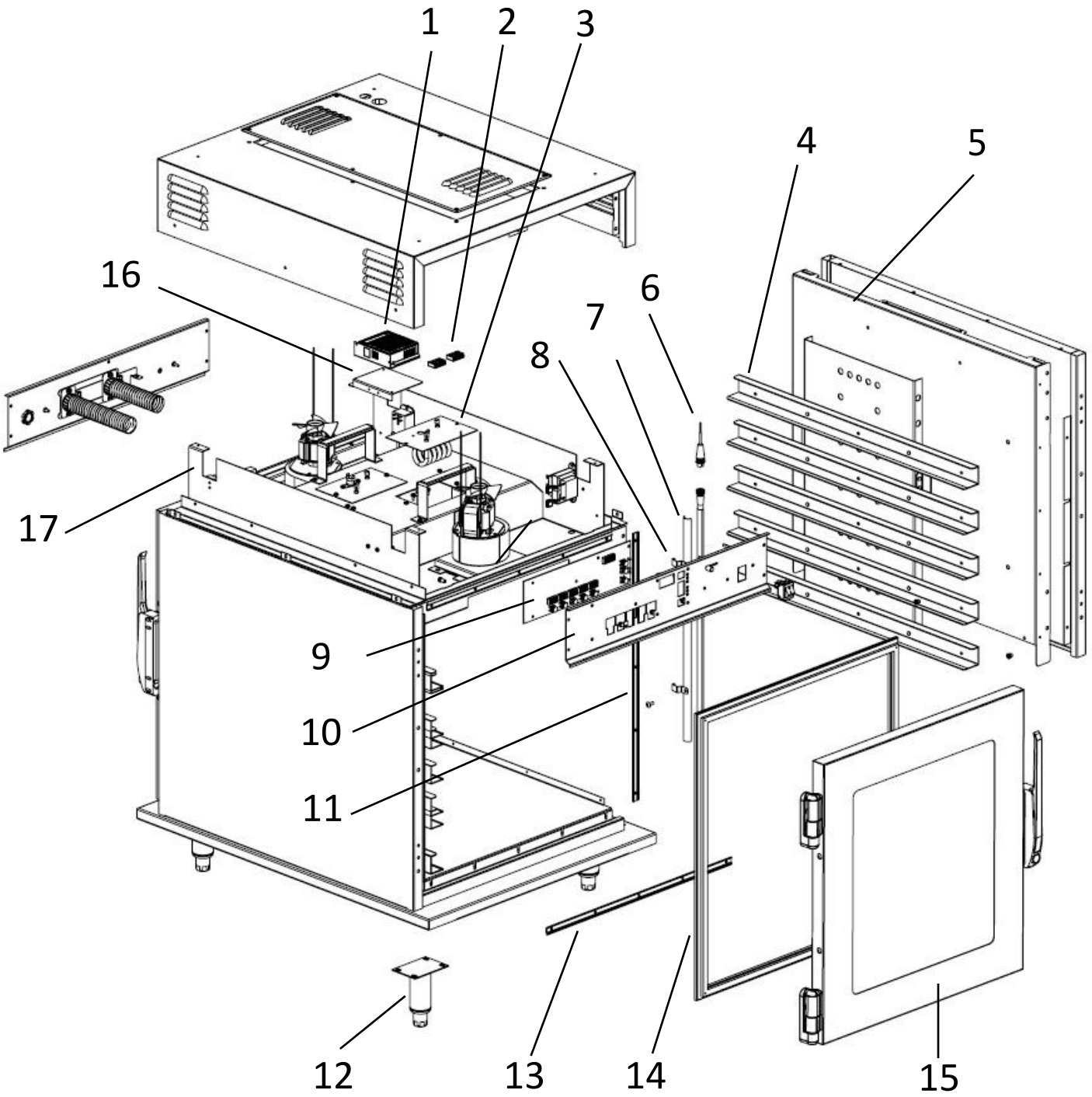


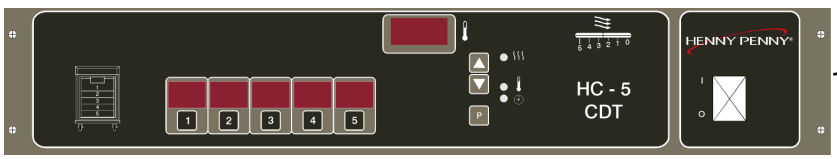
42

Item	Part Number	Description	Qty.	Stock Type
1	72312	PANEL-ACCESS LOUVERS,430SS, #4	1	
1	80890	PANEL-ACCESS LOUVERS,430SS, 2B	1	
2	PL01-033	1 1/8 PLUG BUTTON	1	
3	PL01-004	PLUG BUTTON 7/8	1	
4	25752	MOTOR-BLOWER 220/240V	2	A
5	52240	WHEEL-BLOWER, 50HZ	2	
5	25621	WHEEL BLOWER, 60HZ	2	
6	25698	GASKET BLOWER PLATE	4	
7	25623	HOUSING - BLOWER	2	
8	25622	FLANGE INLET	2	
9	72914	BOX-BLOWER	1	
10	84513	ASSY-BLOWER & MOTOR, 50HZ	2	
10	89508	ASSY-BLOWER & MOTOR, 60HZ	2	
11	87097	ASSY-BLOWER BOX NONVNT	1	
12	25627	GASKET	2	
13	51279	HEATER-COIL 1000W 120V	2	A
14	18201	SENSOR - HI LIMIT 335	2	A
15	44854	INSULATOR-TERMINAL BLOCK	1	
16	ME50-021	TERMINAL BLOCK	1	
17	25963	HOSE - EXHAUST	1	
18	EF01-010	LOCKNUT 1/2	1	
19	EF02-016	STRAIN RELIEF SQUEEZE 3/8	1	
20	68573	SLIDE-VENT	1	
21	68574	SPACER-SLIDE VENT	1	
22	44625	TOP-ENCLOSURE, 430SS,2B	1	
22	84607	TOP-ENCLOSURE, 430SS, #4	1	
23	48990	STUD ASSY-PANEL REAR, VENT	1	
23	72404	STUD ASSY-PANEL REAR, WITHOUT VENT	1	
24	25942	COUPLING - HOSE	4	
25	25977	CLAMP-HOSE	4	
26	25964	HOSE - INTAKE	1	

27	25613	SPACER	2	
28	76001	HARN-RTD	1	
29	56166	ASSY - 3 IN PROBE	1	B
30	72277	SWITCH	1	A
31	ME90-008	RELAY 12VDC	1	
32	83758	CONTROL-HC90X 13 CDT	1	B
33	81307	STUD ASSY-CONT PNL	1	
34	84351	VENT-CONTROL	1	
35	25978	NUT-PUSH 1/8	1	
36	38367	KNOB-VENTED MODULE	1	
37	25950	CABLE-VENT CONTROL, FOR CDT	1	
37	28155	CABLE-VENT CONTROL, FOR EM	1	
38	81422	ASSY WATER BOX	1	
39	25670	CRADLE	1	
40	25924	BOX - BLOWER - VENT	1	
41	88174	SSY-BLOWER BOX VNT	1	
42	96179	HC15 CDT VENTED	1	
42	87303	DECAL - HC15 CDT	1	
Stock Type: A - Truck B - Distributor				

Exploded for HC-5 & HC-4 with Electronic CDT control.

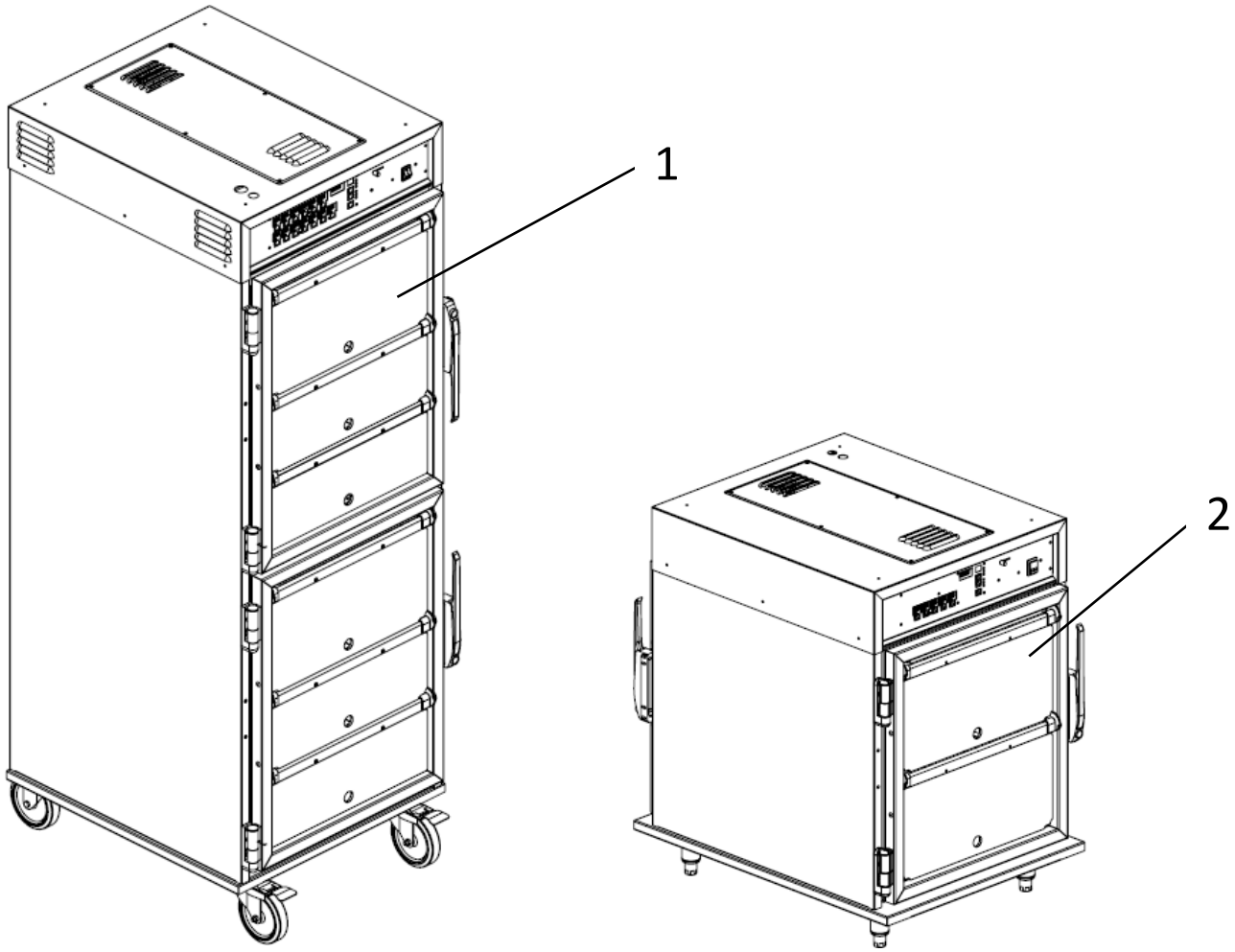




18

Item	Part Number	Description	Qty.	Stock Type
1	179628	Power, LRS-50-12, only for LED	1	A
2	79526	LEVER NUT-5 CNDTR CONNECTOR, only for LED	2	
3	51278	HEATER-COIL 750W 120V	2	A
4	174988	AIR DUCT-1/3 SIZE, only for HC4	2	
4	25957	AIR DUCT-1/3 SIZE, only for HC5-glass door	2	
4	70387	AIR DUCT-1/3 SIZE, only for HC5-flip door	2	
5	177378	PANEL- INSIDE, only for HC4-LED	2	
5	179273	PANEL- INSIDE, only for HC5-glass door-LED	2	
5	178321	PANEL- INSIDE, only for HC5-flip door-LED	2	
5	25656	PANEL- INSIDE, only for HC5 & HC4 W/O LED	2	
6	176958	LED STRIP, only for LED	4	A
7	176961	CLEAR TUBE, only for LED	4	
8	178158	CLAMP	8	
9	83760	CONTROL- 5 CDT	1	
10	85244	WELD-CONTROL-VENT-5CDT	1	
11	25690	RETAINER	4	
12	68938	ASSY-LEG 4 INCH	4	
13	25687	RETAINER	4	
14	25793	GASKET-DOOR	2	B
15	88180	GLASS DOOR	2	
16	179853	BRACKET	1	
17	25940	ENCLOSURE - CONTROL	1	
17	177188	ENCLOSURE – CONTROL WITH LED	1	
18	87338	DECAL-HC5 CDT VENT	1	
18	177932	DECAL-HC4 CDT VENT	1	
Stock Type: A - Truck B - Distributor				

Flip Door for HC 4-5-15



Item	Part Number	Description	Qty.	Stock Type
1	92779	LH-flip door for HC15	A/R	
1	85393	RH-flip door for HC15	A/R	
2	90275	LH-flip door 1/3 for HC5	A/R	
2	89774	RH-flip door 1/3 for HC5	A/R	
2	175009	LH-flip door 1/3 for HC4	A/R	
2	175455	RH-flip door 1/3 for HC4	A/R	
Stock Type: A - Truck B - Distributor				

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