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CP PROOFING CABINET

TABLE OF CONTENTS

Belshaw Proofing Cabinets are for Food applications only.

DESCRIPTION

This manual covers cabinet with electrical ratings of:

120V, 60 Hz, 1440W

220-240V, 50/60 Hz, 1210-1440W

SAFETY INFORMATION

WARNING: Only factory-approved service agents should attempt to service, repair or replace electrical components, wiring or power cord.

WARNING: Unplug the cabinet before cleaning or servicing. Do not wash the cabinet with a water jet or high pressure water.

WARNING: This cabinet is for proofing applications only.

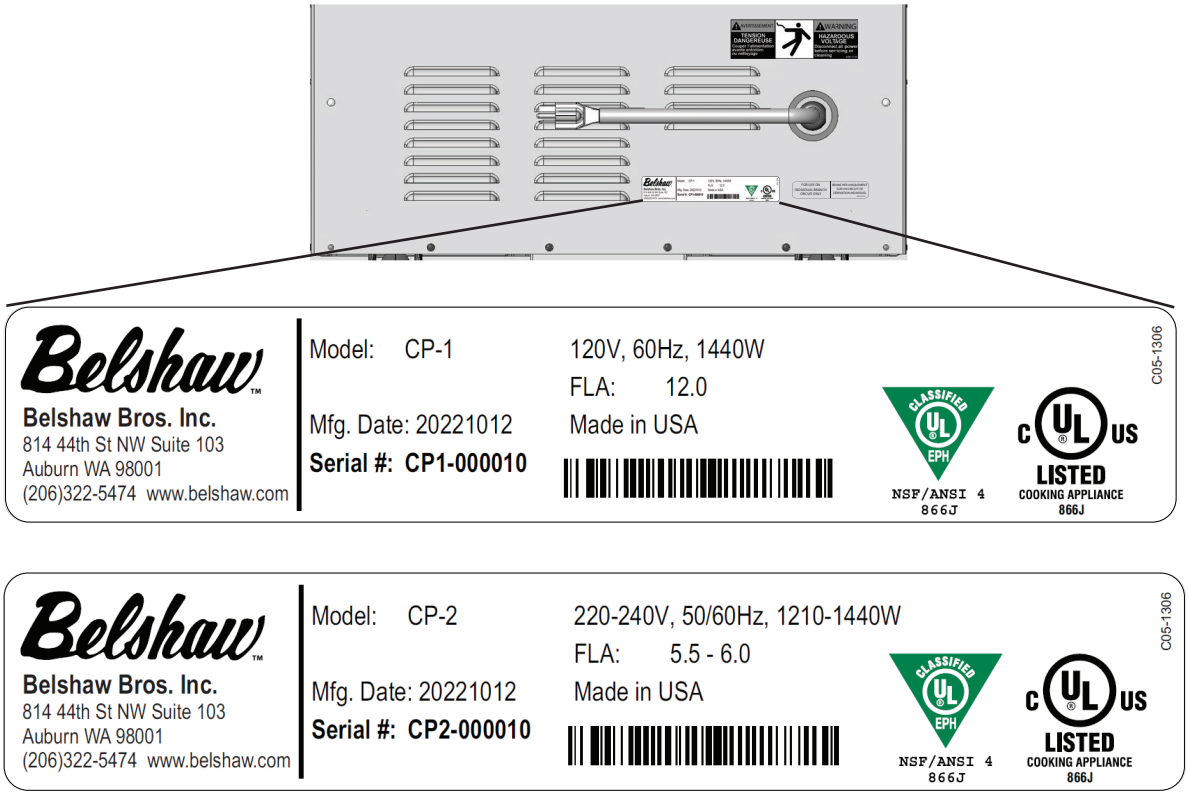
CAUTION: Stainless steel water pan and Plastic drip pan should not go together when operating the cabinet. Stainless steel water pan is located/installed inside cabinet and plastic drip pan is located/installed underneath the cabinet.

CAUTION: Do not spray or pour water into the module. To clean the cabinet, wipe with a damp cloth and dry with a towel. Use only cleaning agents approved for aluminum.

CAUTION: Water dripping onto the floor from open doors can be a slip hazard.

IDENTIFYING YOUR CABINET

Model number, serial number, and electrical information can be found on the data plate that is affixed to the back of the cabinet.



For future reference, note the serial and model number found on the data plate of the cabinet here:

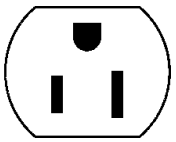
Serial number _____

INSTALLATION AND SET-UP

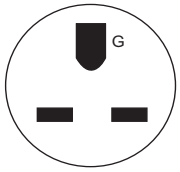
1. Check for Shipping Damage: Check the packaging and cabinet for shipping damage after unloading the unit, and after removing all the packaging.
2. The receiver of this product is responsible for filing freight damage claims. This equipment must be opened immediately for inspection. All visible damage must be reported to the freight company within 48 hours and must be noted on freight bill at the time of delivery.
3. Concealed damage is your responsibility — you must advise the carrier of any loss or damage within 15 days after receipt of the cabinet. If there is damage, retain the original packaging for inspectors.
4. After unpacking the cabinet, remove all tape and packing material from the inside as well as outside of the unit.

   Note: Plastic drip pan is wrapped and placed inside the cabinet with packaging. Plastic drip pan must be installed underneath the cabinet.
5. Any protective covers (plastic or paper sheet) on the door, if applicable, must also be removed before turning the cabinet on.
6. Refer to the data plate located near the power cord for the electrical specifications of cabinet as shown below.
   - With the POWER switch OFF, plug the cord into the appropriate rated, grounded receptacle.
   - Cabinet rated at 120V 1440W must be plugged into either a 15 amp or 20 amp 125VAC receptacle and used on an individual branch circuit.
   - Cabinet rated at 220-240V must be plugged into a 15 amp 250VAC receptacle.

15 Amp Outlet
For 120V 1440 Watt Cabinet



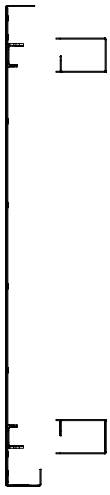
250 VAC 15 Amp Outlet
(For All 220-240V Cabinet)



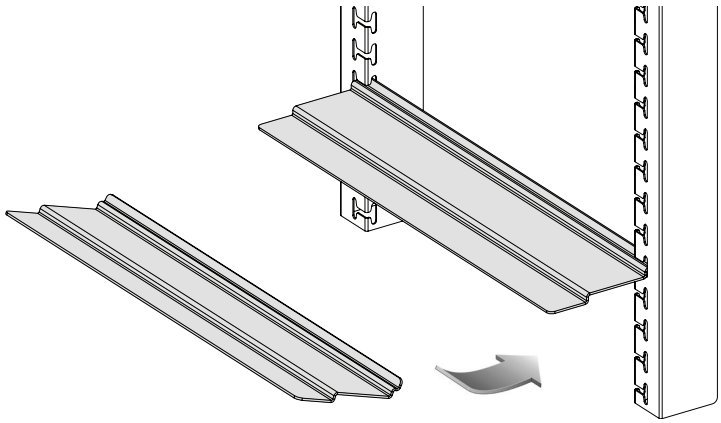
Warning: Do not allow combustible materials to be stored or accumulate on, under or next to the cabinet. Do not block any ventilation louvers or slots.

SLIDE INSTALLATION

The rack uprights have been installed at the factory.
If removed for cleaning, reinstall by hanging them on the Rack Hanger on the side walls of the cabinet.



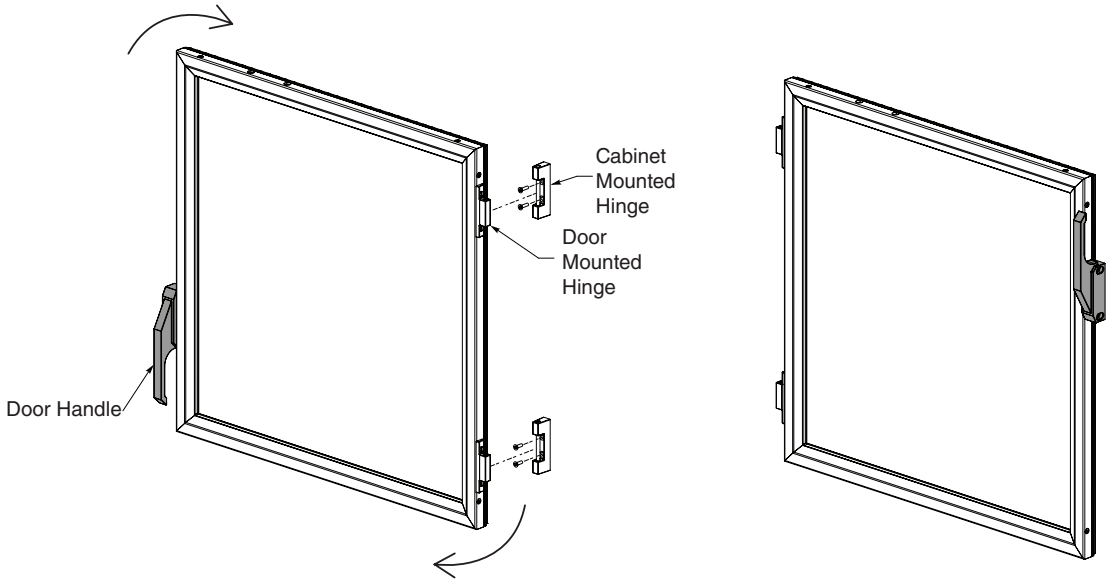
TOP VIEW



REVERSING THE DOORS

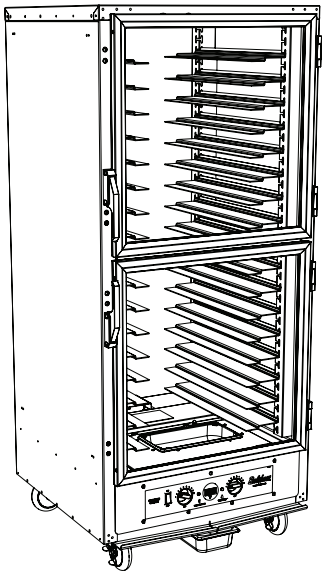
The doors on your cabinet can be reversed to accommodate a right- or left-hand opening. The cabinet has been shipped with the hinges mounted on the right-hand side. To reverse, follow the instructions listed below:

1. The cabinet has Dutch Doors, note which is the top door and which is the bottom door. With the door in the closed position, remove the hinge pin by driving it out using a hammer and a drive pin or small diameter screwdriver.
2. Once the pins are removed grasp the door firmly and pull the latch lever, this will release the door. Set the door aside being careful not to damage the gasket.
3. Remove the screws from the left side of the cabinet and set aside. Then remove the cabinet mounted part of the hinge and remount to the left side of the cabinet. Put the screws removed from the left side of the cabinet into the remaining holes on the right side of the cabinet. Tighten all screws before proceeding.
4. Relocate the latch plate(s) from the left side to the right by removing the two mounting screws. Tighten all screws before proceeding.
5. Rotate the door 180 degrees and align the door mounted hinge part with the cabinet mounted hinge part and tap the hinge pin into place so the top of the pin is flush with top of the cabinet mounted hinge part. On Dutch Doors, do not remove the handles; the top door becomes the bottom and the bottom door the top.



PRODUCT FEATURES

- The control has been placed at the base of the cabinet for easy accessibility and efficient operation.
- Clearly-marked control panel for easy viewing allows climate adjustments without opening the door.
- Includes a removable stainless steel water pan (located inside cabinet).
- Cabinet designed with plastic drip pan (located underneath cabinet) to contain condensation drippage.
- Field reversible, gasketed door.
- Easy pull adjustable magnetic door latch.
- Cord keeper at rear of cabinet.
- All components — door, module, slide racks — are removable to permit thorough, obstruction-free cleaning.



CP PROOFER AUTO-WATER INSTALL:

Note: CP-1001 will be installed on 120 V units, CR-1002 will be installed on 220-240V units.

1. Unplug the proofer from its power source.
2. Remove proofing module from the cabinet.
3. Remove the screws mounting the right side sheet metal shelf to the main module body. (figures 1 & 2)

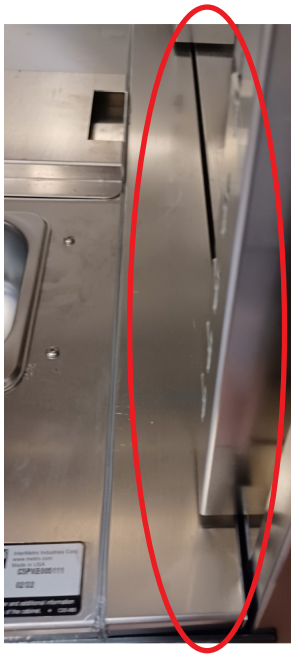


Figure 1

Figure 2

4. Mount new sheet metal shelf containing auto-water system in the same way the replaced shelf was mounted. (figure 3)

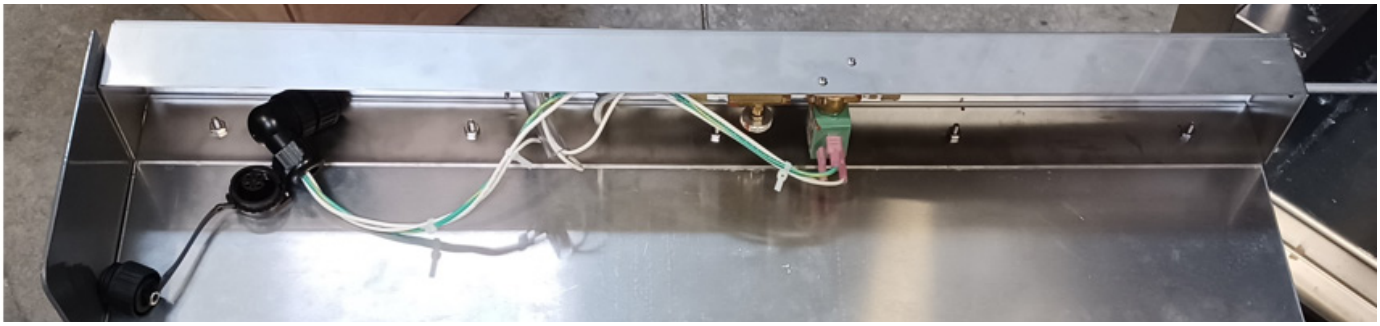


Figure 3

5. Plug auto-water into main proofing module. (figure 4)

Figure 4

6. Re-apply silicone on seam between the auto-water shelf and the main proofing module. (figure 5)

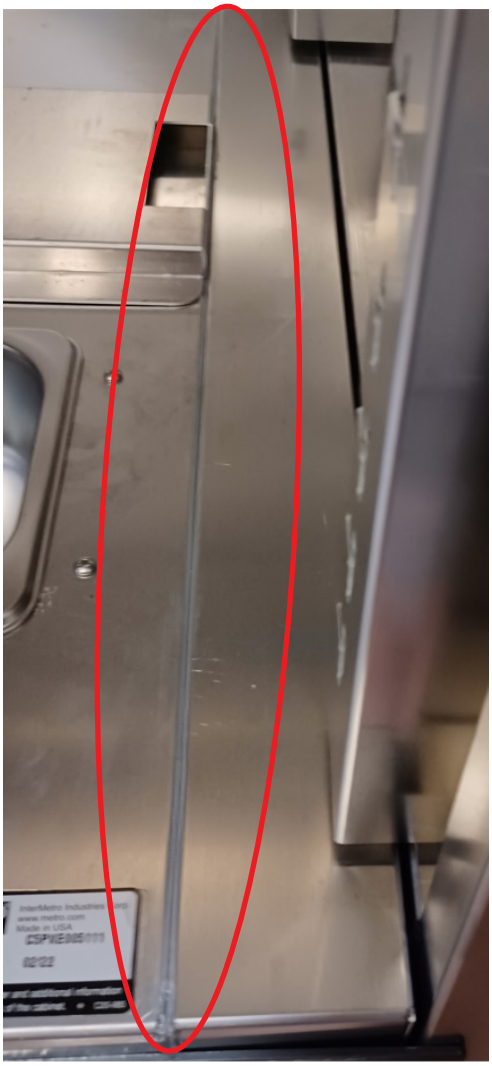


Figure 5

7. Put proofing module back into cabinet and install water hook up to the rear fitting. (figure 6)

Figure 6

8. Plug in and turn on proofer to verify the auto-water feature is operating properly. Use the needle valve to adjust the water flow coming from the nozzle until water stream roughly lands in the middle of the container. (figure 7)

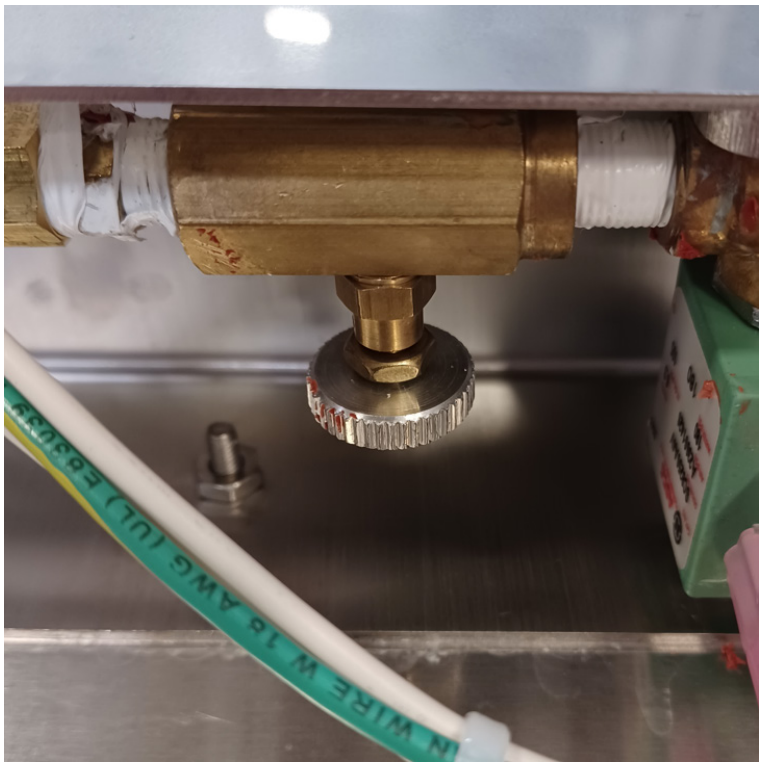


Figure 7

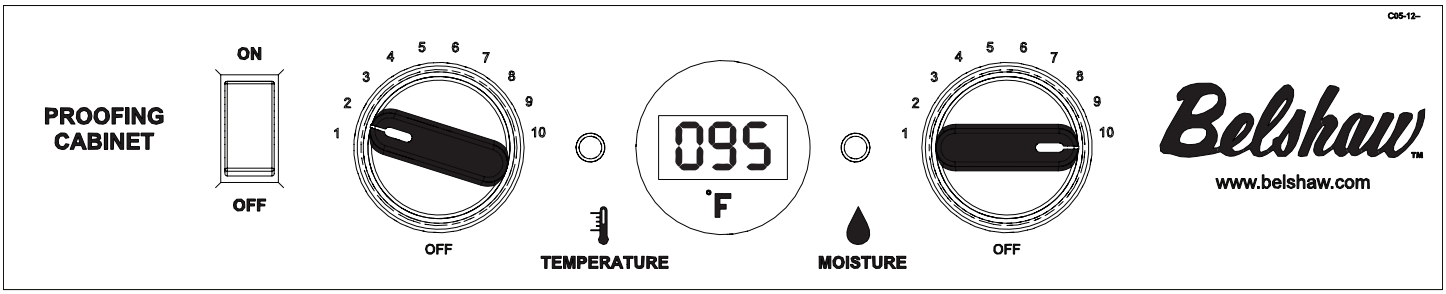
OPERATING INSTRUCTIONS

Power-Up & Pre-Heat

A. Refer to the data plate located near the power cord for the electrical specifications of cabinet as shown on page 2.
   - With the POWER switch OFF, plug the cord into the appropriate rated, grounded receptacle.
   - Cabinet rated at 120V 1440W must be plugged into either a 15 amp or 20 amp 125VAC receptacle.
   - Cabinet rated at 220-240V must be plugged into a 15 amp 250VAC receptacle.

B. With POWER switch OFF, plug into a grounded receptacle.

C. Fill stainless water pan to 1/2" from the top with clean HOT tap water for Proofing module. Check water level every 3 hours (2 hours when Proofing) and refill with clean HOT tap water as necessary. Proofing module requires water pan to be filled if moisture control is turned on.



PROOFING INSTRUCTIONS

1. Set POWER switch to the **ON** position.
2. Set TEMPERATURE control to **2.**
3. Set MOISTURE control to **10.**
4. Pre-heat cabinet until desired temperature and humidity is reached (typical heat-up time from 72°F (22°C) ambient to 95°F (35°C) and 95% relative humidity is approximately 30 minutes).
5. Adjust settings as necessary to reach the desired temperature and humidity levels. Power indicator lights will turn on and off as the heat and moisture thermostats cycle.
6. Adjust **MOISTURE** control to desired level (10 being highest level, 1 lowest level, **OFF** being no heat to the water). The indicator lights will turn on and off as the heat and moisture thermostats cycle.

When the power switch is on, the blower is always energized, circulating air, and the digital thermometer is always displaying the cabinet temperature. When the thermostat senses heat is required, the appropriate indicator will light and the heater element will begin to produce heat.

- At the end of the operating day, it is not necessary to disrupt the temperature setting to turn the cabinet off. By switching the power switch off, the cabinet is no longer operating. When resuming operations, switch the power on and the cabinet will attain the previous temperature and moisture levels.

Caution: The stainless steel water pan must be in place during module operation.

Caution: Water inside this cabinet's pan is hot during use! Turn off and allow the water to cool before emptying the pan.

Note: The POWER switch is not a foot switch. Using it as a foot switch can damage the switch and make the cabinet inoperable.

Warning: Follow all food safety guidelines. Pre-heat the cabinet to the desired temperature before placing product into cabinet .

- Your Belshaw cabinet is capable of creating some humid air. As you operate the cabinet and open and close the door(s), condensation may form on the inside surfaces of the cabinet. Some dripping of water may occur to the outside of the cabinet particularly at the door seals. Water may also drip off opened doors onto the floor.

Caution: Water dripping onto the floor from open doors can be a slip hazard.

Note: When turning the cabinet off at the end of the workday, it is recommended to leave the door(s) open to prevent heat and condensation build up within the cabinet.

CARE & MAINTENANCE

Cleaning The Cabinet

Warning: Unplug the cabinet before cleaning or servicing. Do not wash the cabinet with a water jet or high-pressure water.

Warning: Allow the unit to cool before cleaning, as the interior of the cabinet may be hot enough to burn. Also, allow the water in the pan to cool before removal.

Caution: Do not spray or pour water into the control module. To clean the cabinet and module, wipe with a damp cloth and dry with a towel. Use only cleaning agents approved for aluminum.

Caution: Do not use strong alkalis as it may discolor aluminum.

- Use cleaners in the proper concentrations. Follow the manufacturer's directions for the cleaning product used. After using any cleaning products, thoroughly rinse all surfaces to remove all residue.
- Use a damp cloth or sponge. Mild soap suitable for aluminum is acceptable. Dry with a clean towel. Wipe up spills as soon as possible and regularly clean the cabinet to avoid staining and difficult to clean conditions.
- If a control knob needs to be removed for cleaning, remove the knob, clean the knob recess and knob, and replace the knob.

1. When removing the module, make sure the power cord is **NOT plugged into the wall receptacle** or hooked onto the cord keeper. If equipped with optional Auto water system, make sure to turn off water supply and disconnect before module removal. Open the door(s). If there is water in the stainless steel pan, remove and empty. Remove the module from the cabinet by lifting up the front enough to clear its detent, and then pull the module away from the cabinet. The power cord slips through the clearance hole at the rear of the cabinet.
2. Remove the slide racks.
3. After cleaning, replace all components. Make sure the slide racks are seated in the hangers correctly.
4. Push the power cord through the plastic snap bushing in the rear of the cabinet and install the module.

Cleaning Instructions for Clear Doors

For regular cleaning, a soft cotton flannel cloth and a cleaner recommended by its manufacturer for use on clear door is suggested. Do not use synthetic cloths or cleaners not intended for polycarbonate as these will scratch and dull the door panel. Additional hints for keeping the door panel clean and clear:

1. Isopropyl (rubbing) alcohol, used as a cleaner, will aid in removing grease smudges and fingerprints.
2. A small amount of liquid dish detergent in a bucket of water will help remove heavier dirt and will help make the clear panel antistatic and therefore less likely to attract dust.
3. A paste-wax recommended for polycarbonate plastics and approved for food service equipment will hide small scratches and return the luster and clarity to the clear door panel as well as reduce the electrostatic attraction of dust.

Cabinet Maintenance:

Regularly inspect this product. Tighten loose fasteners and replace worn or damaged parts with new Belshaw approved parts. For mobile units, replace worn or damaged casters immediately.

BASIC TROUBLESHOOTING

Operation basics:

When the power switch is on, the blower is always energized, circulating air, and the digital thermometer is always displaying the cabinet temperature. A thermostat controls whether an element will be energized depending on the thermostat setting and the air temperature it is sensing. The control knob is used to change the thermostat setting. When a thermostat senses the temperature has gone below its set point, the thermostat contacts close, the appropriate indicator will light and the heater element will begin to produce heat. When the thermostat senses the temperature has reached its set point, the contacts open, the indicator light will go out and the heater element will stop producing heat.

There are two heating elements in these modules. One is in the air duct to heat the air, and one is under the stainless steel water pan to heat the water and introduce moisture into the cabinet. One thermostat senses the return air temperature and will energize the air duct element as required to heat up the cabinet air. The other thermostat senses the air temperature around the water pan. It will energize the water pan element to heat the water and release moisture into the cabinet.

Element wattages are shown in the chart below:

Proofing module	Air Duct element	Water Pan element
120V, 12 amp, 1440 watt cabinet	675 Watt	675 watt
220-240V, 5.5-6 amp, 1210-1440 Watt cabinet	567-675 Watt	567-675 Watt

Note: When heating element(s) are not energized, the amp draw for the blower and digital thermometer is approximately 0.6 to 0.8 amps at 120V and 0.3 to 0.4 amps at 220-240V

Warning: Only factory-approved service agents should attempt to service, repair or replace electrical components, wiring or power cord.

1. **Controls do not work (digital thermometer and indicator light(s) not lit):**
   a. Check that the cabinet is plugged in.
   b. Check that the outlet has power. Is electrical service fuse blown or circuit breaker tripped?
   c. Check that the power switch is in the “On” position.
   d. Check the cabinet wiring from the power cord to the power switch and to the terminal block.
   e. Power switch could be bad.
2. **Temperature too hot:**
   a. Temperature set point is too high. Turn control knob down to a lower setting. Wait several minutes and see if the displayed temperature decreases.
   b. Thermostat may have failed with contacts closed. Check thermostat.
   c. If displayed temperature exceeds 220°F (104°C):
      i. Blower wiring is faulty or disconnected.
      ii. Blower needs replacing. Check blower.
      iii. The thermostat or blower may have failed and the thermal overload device is controlling the temperature. Stop using the cabinet immediately and contact a factory-approved service agent.
3. **Temperature too low:**
   a. The cabinet may still be in pre-heat or recovering from a door being opened.
   b. Temperature set point is too low. Turn temperature control knob to a higher setting. Wait several minutes and see if the displayed temperature increases.
   c. A door is not closed or sealing properly.
   d. Blower is not circulating air:
      i. Blower wiring is faulty or disconnected.
      ii. Blower needs replacing.

BASIC TROUBLESHOOTING (continued)

4. **Indicator light is not working:**
   It is rare that an indicator light will be defective but it is possible. The thermostat contacts may not be closing and therefore the heater element is not being energized. Check the thermostat and pilot light and their respective wiring.
5. **No heat generated:**
   a. If the heat indicator light is on, but the cabinet does not draw the appropriate amperage per the chart on page 8.
      i. Air heater element may be faulty.
      ii. The wiring to the air heater element may be faulty or disconnected.
      iii. The thermostat may be faulty.
   b. If the heat indicator light is not on, the thermostat contacts may not be closing and therefore the heater element is not being energized. It is rare that the indicator light will be defective but it is possible. Check the thermostat and pilot light and their respective wiring.
6. **Moisture level is too low**:
   a. If the heat indicator light is on, and the cabinet draws the appropriate amperage per the chart on page 8:
      i. Check that the stainless steel water pan has water.
      ii. A door is not closed or sealing properly.
      iii. Moisture set point is too low. Turn moisture control knob to a higher setting.
   b. If the heat indicator light is on, but the cabinet does not draw the appropriate amperage per the chart on page 8:
      i. Air heater element may be faulty.
      ii. The wiring to the air heater element may be faulty or disconnected.
      iii. The thermostat may be faulty.
   c. If the heat indicator light is not on, the thermostat contacts may not be closing and therefore the heater element is not being energized. It is rare that the indicator light will be defective but it is possible. Check the thermostat and pilot light and their respective wiring.
7. **Cabinet trips GFCI (ground fault circuit interrupter):**
   A GFCI receptacle protects against “ground faults” whenever an electrical product is plugged into the GFCI outlet by constantly monitoring the electricity for any loss of current. If the current flowing out of the receptacle differs by a small amount from that returning, the GFCI quickly switches off power to that circuit. The GFCI interrupts power extremely fast to minimize the possibility of an electric shock.
   a. The heater element may absorb some moisture into its casing and insulation during shipment or during long periods of not being used (such as during the summer in a closed school kitchen). Plug the cabinet (without water in the stainless steel water pan into a non-GFCI outlet, set the temperature to “10” and let it run for 30-60 minutes to dry out any moisture the element may have absorbed. (If it trips the standard circuit breaker call factory-approved service agent.) After drying the element, plug the cabinet into the GFCI outlet; the cabinet should run without tripping the GFCI.
   b. If the cabinet still trips the GFCI, call a factory-approved service agent.

SERVICE and REPLACEMENT PARTS

BELSHAW CABINET (BOTH 120V & 220-240V)

WARNING: Only factory approved service agents must attempt to service, repair or replace electrical components, wiring or power cord.

CABINET BODY

Item/	Part No.	Description
1	RPBEL-TOPDOOR	Top Door
2	RPBEL-BOTDOOR	Bottom Door
3	RPC14-119	Door Hinge (Qty. 1)
4	RPC14-118	Door Latch
5	RPBEL-DRGASKET	Door Gasket
6	B5DNB	5" Brake Caster
7	B5DN	5" Swivel Caster
8	RPC06-179	Plastic Drip Pan
9	RPC13-106	Power Cord Bushing
120V CABINET MODULES		
10	RPC13-375	Power Switch (Red)
11	RPC06-913	Thermostat Knob
12	RPC13-721	Thermostat
13	RPC09-213	Thermostat Mounting Cup
14	RPC13-246	Amber Indicator Light
15	RPC13-237	Digital Thermometer
16	RPC13-183	Thermometer Transformer, 120V
17	RPC11-191	Blower Intake Collar
18	RPHM20-2103	Blower, 120V
19	RPC13-198	Thermal Cut-Out
20	RPC5-RTANGLE-15	Power Cord, 15A, NEMA 5-15P
21	RP-STRNRLF	Strain Relief Bushing
22	RPC13-096	Terminal Block
23	RPC07-055	Grommet
24	RPC56-SCLP	Sensor & Bulb Clamp Kit
25	RPC11-185	Stainless Steel Water Pan
26	RPC13-367	Heat Element, “U” Shaped 120V, 675W
27	RPBEL-P120MODASY	Replacement Proofing, 120V, 1440W Module
28	RPBEL-AWREC	Auto-Water Power Connector

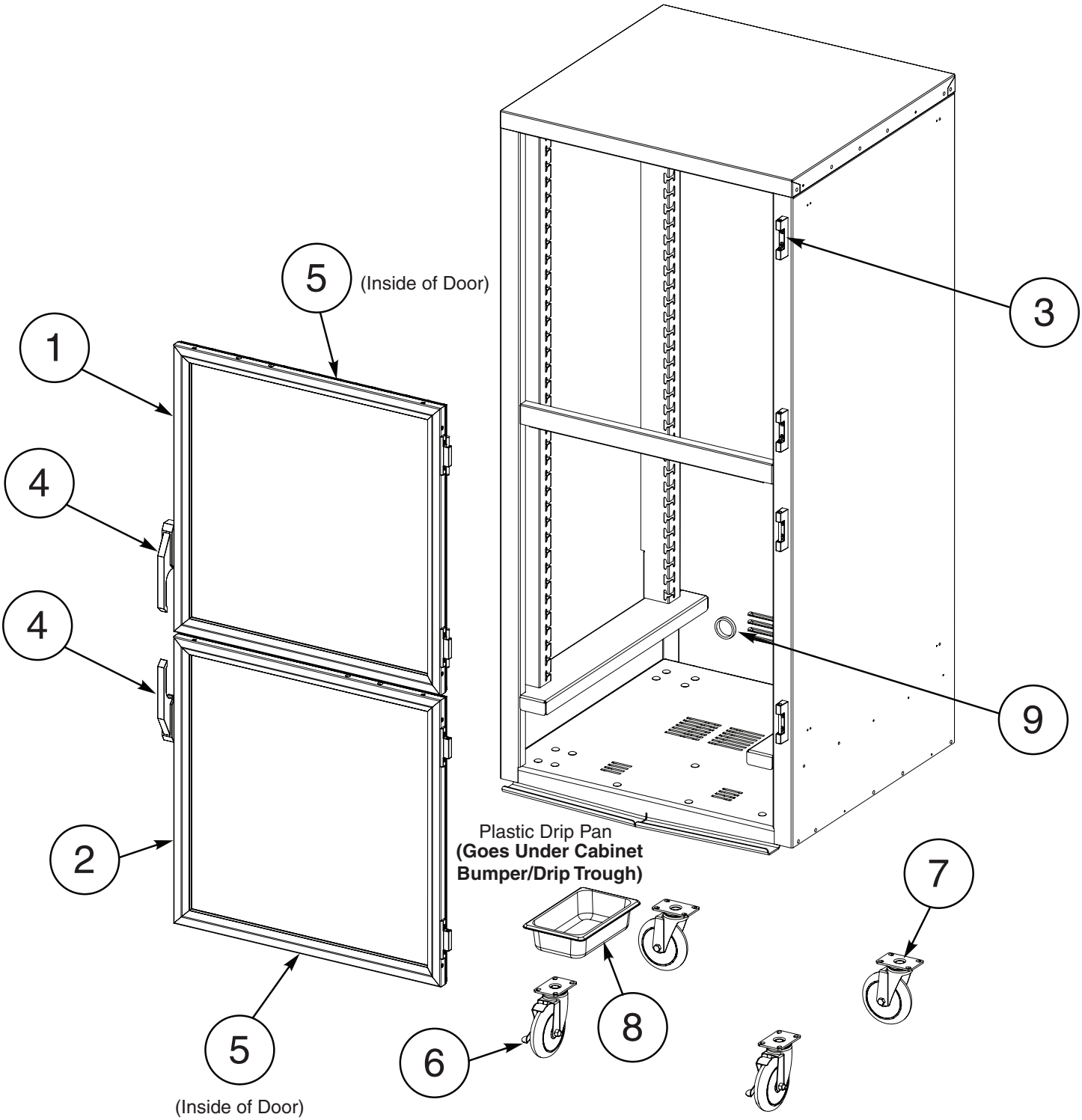
Item/	Part No.	Description
220-240V CABINET MODULES		
10	RPC13-375	Power Switch (Red)
11	RPC06-913	Thermostat Knob
12	RPC13-721	Thermostat
13	RPC09-213	Thermostat Mounting Cup
14	RPC13-246	Amber Indicator Light
15	RPC13-237	Digital Thermometer
16	RPC13-1156	Thermometer Transformer, 220/240V
17	RPC11-191	Blower Intake Collar
18	RPHX20-2103	Blower, 220-240V, 50/60HZ
19	RPC13-198	Thermal Cut-Out
20	RPC5-STRPLG-240V	Power Cord, 250VAC 15A, Nema 6-15P
21	RPSTRNRLF	Strain Relief Bushing
22	RPC13-096	Terminal Block
23	RPC07-055	Grommet
24	RPC56-SCLP	Sensor & Bulb Clamp Kit
25	RPC11-185	Stainless Steel Water Pan
26	RPC13-369	Heat Element, 240V, 675W
27	RPBEL-P240MODASY	Replacement Proofing, 220-240V, 1210-1440W Module
28	RPBEL-AWREC	Auto-Water Power Connector

Item/	Part No.	Description
CABINET MODULES		
	RPBEL-DIVERTER	Diverter Assembly

*Check data plate at rear of cabinet to confirm cabinet voltage before selecting replacement parts.

SERVICE and REPLACEMENT PARTS (continued)

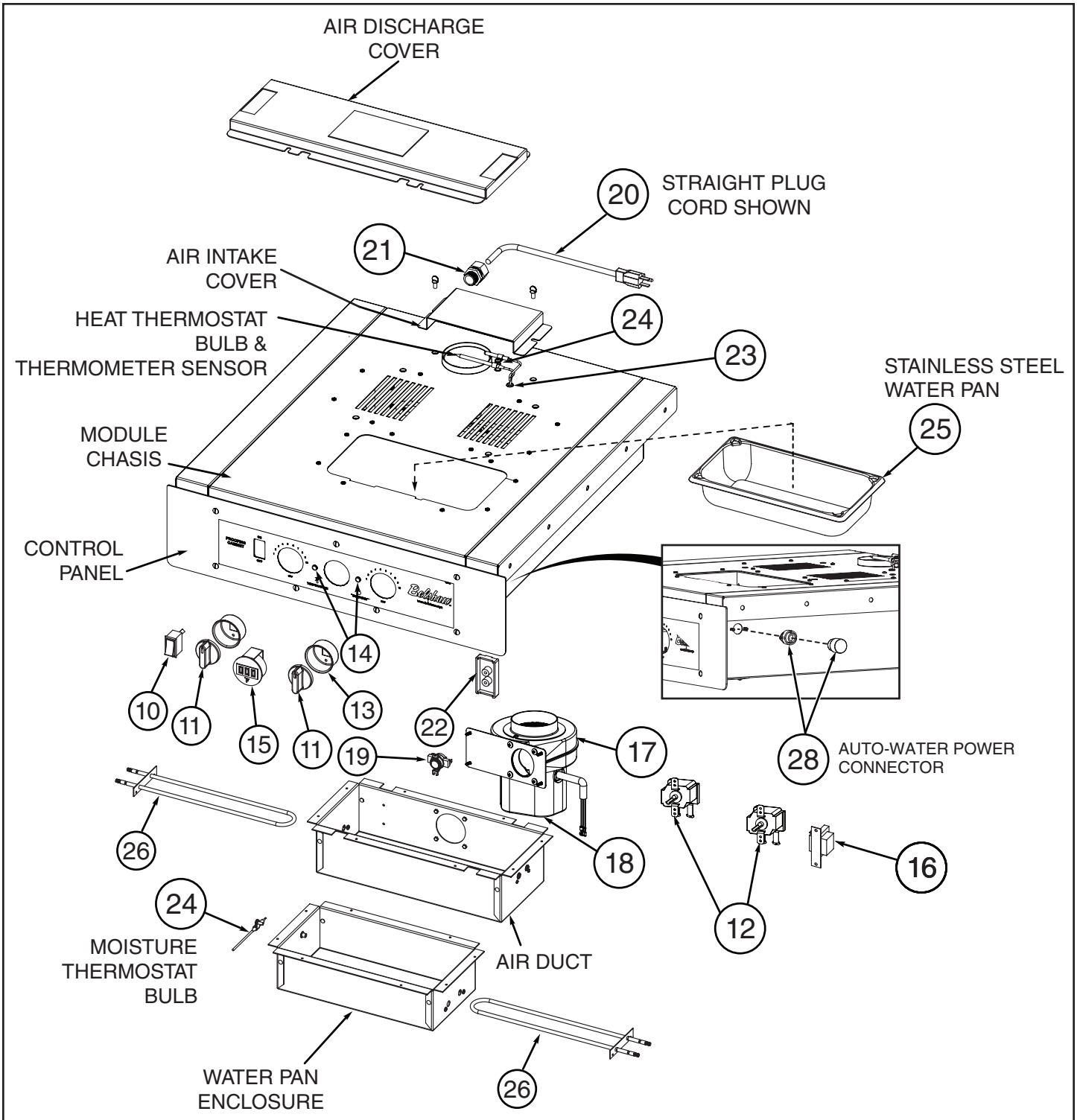
Belshaw Cabinet Replacement Parts Diagram (Both 120V & 220-240V)



SERVICE and REPLACEMENT PARTS (continued)

(For 120V & 220-240V parts see Page 12)

PROOFING MODULE

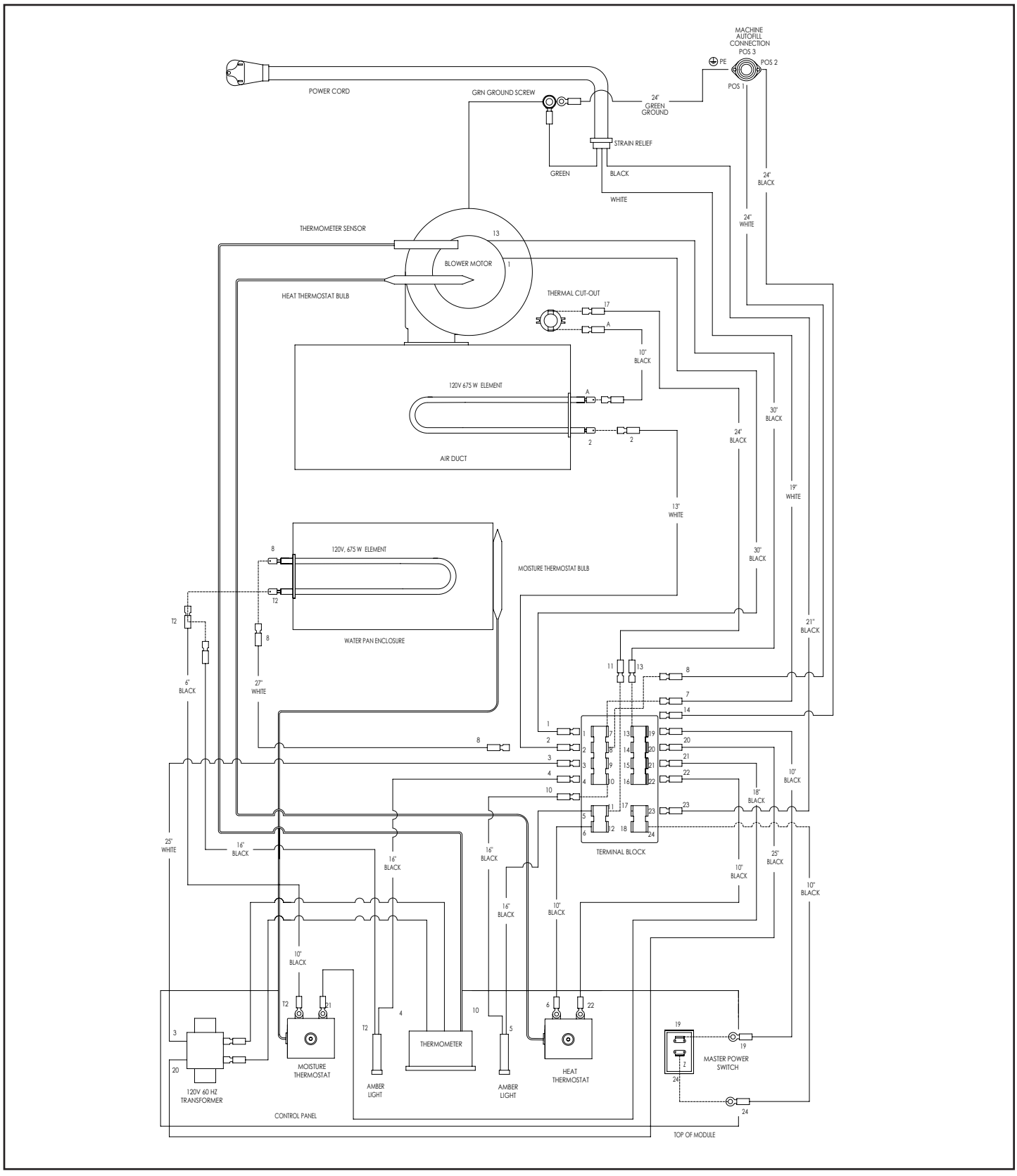


FOR 120V REPLACEMENT BEL-P120MODASY MODULE, ORDER ITEM #27 ON PAGE 12

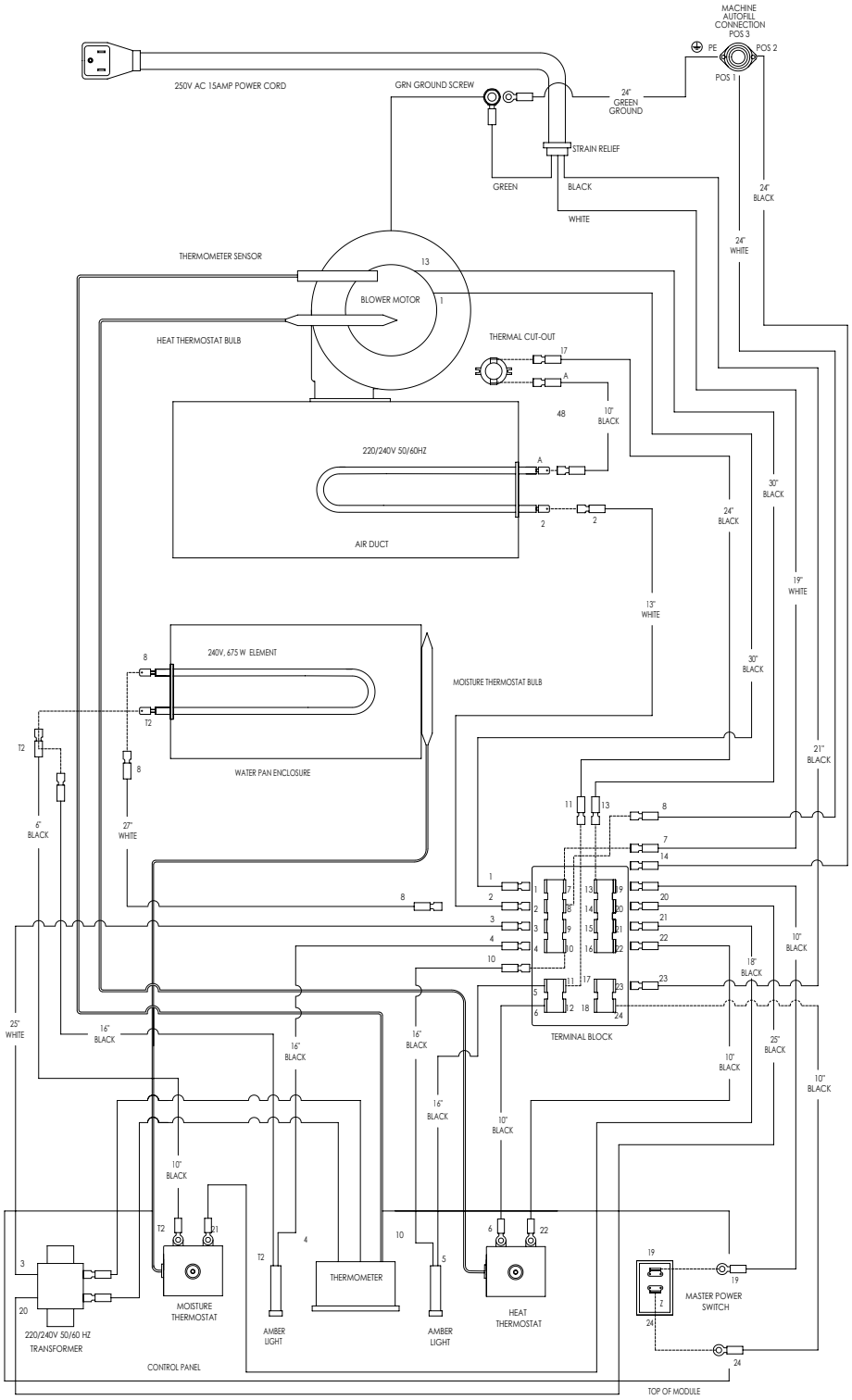
FOR 220-240V REPLACEMENT BEL-P240MODASY MODULE, ORDER ITEM #27 ON PAGE 12

SERVICE and REPLACEMENT PARTS (continued)

WIRING DIAGRAM — PROOFING MODULE (For 120V)



WIRING DIAGRAM — PROOFING MODULE (For 220-240V)



Please do not hesitate to call Belshaw Bros. for additional assistance, at (206) 322-5474, or e-mail us at service@belshaw.com.

Belshaw Bros. Inc.
814 44th St NW Suite 103 Auburn WA 98001
(206)322-5474

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