



# Primo Cappuccino™ 3 Station Dispensing System



## READ AND SAVE THESE INSTRUCTIONS

**NOTICE TO INSTALLER:** Please leave this booklet with the machine.

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### Contact Information

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For the latest specifications and information go to [www.wilburcurtis.com](http://www.wilburcurtis.com)  
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Due to continued product improvement, the products illustrated/photographed in this guide may vary slightly from the actual product.

## Key Features

- G3 Digital Control Module - Provides precise control over all critical blending and dispensing functions.
- Pre-Dispense - Easy to use. Choose a size from small, medium or large by the touch of a button.
- Factory Pre-Set - For out-of-the-box operation.
- LCD Digital Display - Extra bright and easy to use.
- Scroll-Through Precision Programming - Adjust powder flow in 5% increments and water temperature from 80°F/27°C to 204°F/96°C to create the perfect hot or cold beverage.

## Specifications (Selected Models)

### Electrical Supply Requirements

MODEL #	DESCRIPTION	PHASE	VOLTS	AMPS	HEATING CONFIG	WIRE	WATTS	HERTZ	CAPACITY
PCGT3	3 Station	1 PH	120 V	15.0 A	1 x 1600 W	2W + G	1800 W	50/60 Hz	5.4 gal/hr [20.4 l/hr]
PCGT3DV	3 Station, dual voltage	1 PH	120/220 V	15.0/14.5 A	2 x 1600 W	2W/3W + G	1800/3000 W	50/60 Hz	5.4/10.7 gal/hr [20.4/40.5 l/hr]
PCGT3300	3 Station with lift door	1 PH	120 V	15.0 A	1 x 1600 W	2W + G	1800 W	50/60 Hz	5.4 gal/hr [20.4 l/hr]
PCGT3700	3 Station, pre-set dispense	1 PH	120 V	15.0 A	1 x 1600 W	2W + G	1800 W	50/60 Hz	5.4 gal/hr [20.4 l/hr]
PCGT3800	3 Station with hot water faucet	1 PH	120 V	15.0 A	1 x 1600 W	2W + G	1800 W	50/60 Hz	5.4 gal/hr [20.4 l/hr]
PCGT3900	3 Station, iced coffee	1 PH	120 V	15.0 A	1 x 1600 W	2W + G	1800 W	50/60 Hz	5.4 gal/hr [20.4 l/hr]
EXPORT									
PCGT3E000-x	3 Station, export	1 PH	220-240V	9.9-10.8 A	1 x 2000 W	2W + G (1/N/PE)	2178-2592 W	50/60 Hz	10.9 gal/hr [41.3 l/hr]

### Dimensions

### Water Supply Requirements

MODEL #	HEIGHT	WIDTH	DEPTH	SHIP WEIGHT	SHIP CUBE	WATER CONNECTOR	WATER PRESSURE	MIN. FLOW RATE
PCGT3	34.78" [88.3 cm]	14.25" [36.2 cm]	24.54" [62.3 cm]	125.0 lbs [56.7 kg]	21.64 cu. ft. [0.16 m³]	1/4" flare	20 - 90 psi [138 - 620 kPa]	1.0 gpm [3.8 lpm]
PCGT3DV								
PCGT3300								
PCGT3700								
PCGT3800								
PCGT3900								
EXPORT								
PCGT3E000-x	34.78" [88.3 cm]	14.25" [36.2 cm]	24.54" [62.3 cm]	125.0 lbs [56.7 kg]	21.64 cu. ft. [0.16 m³]	1/4" flare	20 - 90 psi [138 - 620 kPa]	1.0 gpm [3.8 lpm]

Following are the factory default settings for the Primo Cappuccino™ dispenser:

- Water Temperature = 190°F/88°C (standard units)
- Powder Ratio = 60%
- = 96°F/36°C (iced cappuccino units)

## Symbols



This is the safety alert symbol. It is used to alert you to potential physical injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.



**DANGER** - Indicates a hazardous situation which, if not avoided, will result in death or serious injury.



**WARNING** - Indicates a hazardous situation which, if not avoided, could result in death or serious injury.



**CAUTION** - Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.



**NOTICE** - Indicates a situation which, if not avoided, could result in property damage.



**IMPORTANT** - Provides information and tips for proper operation.



**SANITATION REQUIREMENTS**



**WARNING** - This product can expose you to chemicals including Acrylamide and Bisphenol A (BPA), which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## Important Safeguards/Conventions



### WARNING:

- Make sure that this appliance is installed and grounded according to the INSTALLATION INSTRUCTIONS by qualified personnel before attempting to use it. Failure to follow the INSTALLATION INSTRUCTIONS could result in personal injury or void the warranty.
- This appliance is designed for commercial use. Any service other than cleaning and preventive maintenance should be performed by an authorized Wilbur Curtis service technician.
- To reduce the risk of fire or electric shock, DO NOT open the service panels. There are no user serviceable parts inside.
- Keep hands, arms and other items away from hot surfaces of the unit during operation.
- Clean the appliance and any dispensers completely before using them for the first time according to the CLEANING INSTRUCTIONS. Clean them regularly as instructed in the CLEANING INSTRUCTIONS.
- Use this appliance only for its intended use, brewing/dispensing hot and/or cold beverages/water.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- Avoid spillage onto the power (mains) connector.

## CE Requirements

- This appliance must be installed in locations where it can be overseen by trained personnel.
- For proper operation, this appliance must be installed where the temperature is between 5°C to 35°C.
- This appliance is not suitable for outdoor use.
- This appliance shall not be tilted more than 10° for safe operation.
- An electrician must provide electrical service as specified in conformance with all local and national codes. For safe use, an all-pole disconnection must be incorporated into the fixed wiring in accordance with the wiring rules outlined in clause 7.12.2 of IEC 60335 for meeting the minimum electrical safety of this standard.
- This appliance must not be cleaned by water jet.
- This appliance can be used by persons aged from 18 years and above if they have been given supervision or instruction concerning use of the appliance in a safe way and if they understand the hazards involved.
- Keep the appliance and its cord out of reach of children aged less than 18 years.
- Appliances can be used by persons 18 years and above with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Children under the age of 18 years should be supervised to ensure they do not play with the appliance.
- If the power cord is ever damaged, it must be replaced by the manufacturer or authorized service personnel with a special cord available from the manufacturer or its authorized service personnel in order to avoid a hazard.
- Machine must not be immersed for cleaning.
- Cleaning and user maintenance shall not be made by children unless they are older than 18 years and supervised.
- This appliance is intended to be used in household and similar applications such as:
  - staff kitchen areas in shops, offices and other working environments;
  - by clients in hotels, motels and other residential type environments;
  - bed and breakfast type environments.
- This appliance not intended to be used in applications such as:
  - farm houses
- Access to the service areas permitted by Authorized Service personnel only.
- The A-Weighted sound pressure level is below 70 dBA.

## European Regulations and Directives

- This appliance meets the requirements of all applicable regulations in Regulation 1907/2006/EU (REACH), Directive 2011/65/EU (ROHS) and its amendment (EU) 2015/863, Directive 2012/19/EU (WEEE), Directive 2014/30/EU (EMC), Directive 2006/42/EC (Machinery) and Directive 2014/35/EU (LVD).
- The declaration of conformity is included with this appliance. The appliance bears the CE mark.
- This appliance is subject to the directive on waste electrical and electronic equipment (WEEE/ EU directive). Do not dispose of this appliance in domestic waste. Contact your local governing authorities for information on disposal requirements.
- Any modifications to equipment that are not approved by the Wilbur Curtis Company will render this declaration invalid.





**WARNING:** Installation is to be performed only by a qualified installer.



**WARNING:** Improper electrical connection may result in an electric shock hazard or damage the unit. This appliance must be properly grounded.



**NOTICE:** DO NOT connect this appliance to a hot water supply. The water inlet valve is not rated for hot water. Do not exceed the maximum water pressure stated in the **SPECIFICATIONS** section.



**IMPORTANT:** Observe all governing codes and ordinances.

## Installation Instructions

### Installation Requirements

- A secure surface capable of supporting the weight of the appliance.
- For units without an attached cord set attached or dual voltage units set up for use with 220 - 240 Volts:  
Appropriately sized, UL listed, grounding type power cable to meet the electrical specifications for the appliance. If you have questions about the correct cable size and length, consult a qualified installer. If the appliance will be hard wired to a junction box, the power cable must be long enough so that the unit can be moved for cleaning underneath.
- A grounded electrical connection to an electrical circuit that meets the electrical specifications of the appliance (see **SPECIFICATIONS**). The circuit must be protected by the appropriate sized circuit breaker. If you are not certain that the existing circuit meets the requirements for your unit, consult a licensed electrician.
- A water filtration system is required to maintain trouble-free operation. Wilbur Curtis Co., Inc. recommends a Wilbur Curtis approved water filter. See the Curtis Equipment Catalog for a full line of Wilbur Curtis approved water filters.
- Potable water supply line connection from the water filter capable of supplying the minimum flow rate required by the specifications. The water supply line must be able to connect to the flare fitting on the back of the unit. See the **SPECIFICATIONS** section for the correct size. The water line should also be capable of being controlled by a shut off valve. Do not connect the water line to a saddle valve or needle valve.

IEC requires the following water connection:

- 1 A quick disconnect or additional coiled tubing (at least two times the depth of the appliance) is required so that it can be moved for cleaning underneath.
- 2 This equipment is to be installed with adequate back-flow protection to comply with applicable federal, state and local codes.
- 3 Water pipe connections and fixtures directly connected to a potable water supply shall be sized, installed and maintained in accordance with federal, state and local codes.

The International Plumbing Code of the International Code Council and the Food and Drug Administration (FDA) Food Code manual, direct that this equipment must be installed with adequate back-flow prevention in compliance with federal, state and local codes. For units installed outside of the U.S.A., make sure that the installation is in compliance with the applicable plumbing/sanitation code for your area.

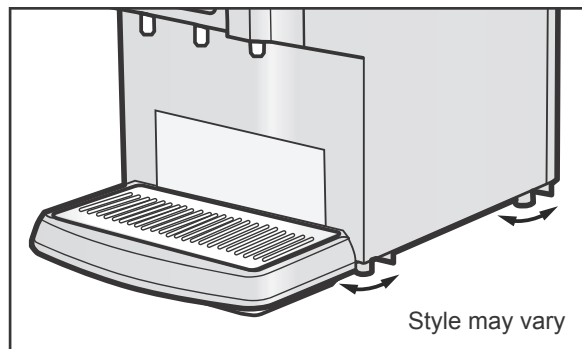
## Installation

### Leveling



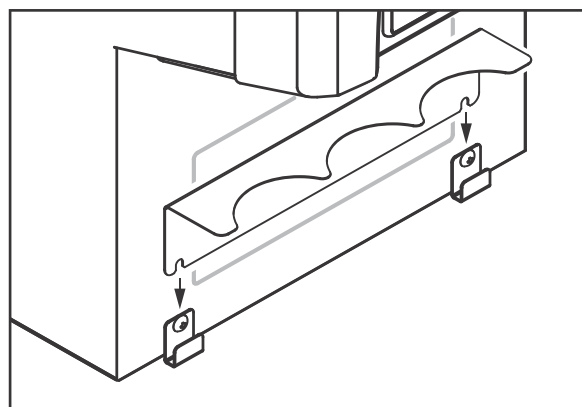
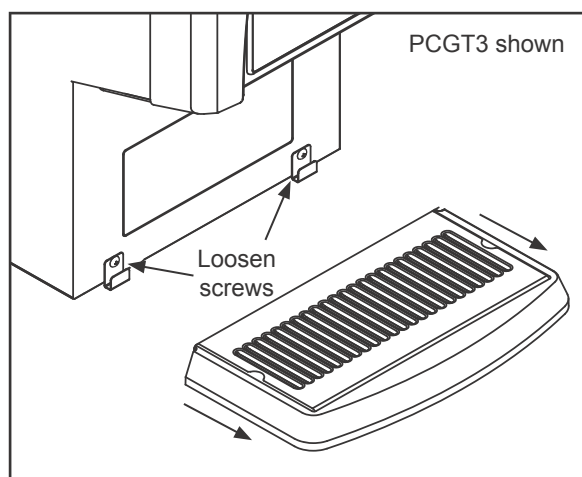
**WARNING:** Use the leveling legs to level the dispenser only. Do not use them to adjust dispenser height. Do not extend them higher than necessary.

- 1 Position the dispenser on the counter top. Level it left to right and front to back by turning the bottom of the legs.



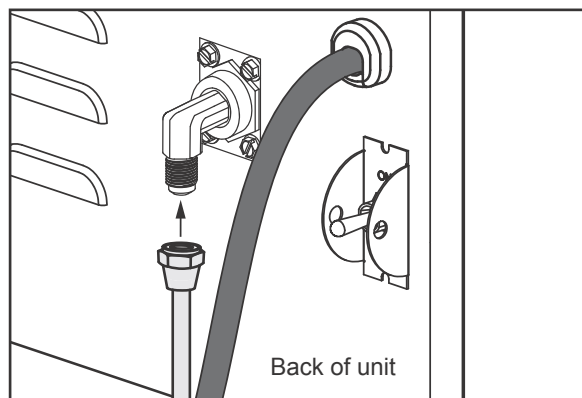
### Installation of the Cup Locator (Optional Accessory Available for PCGT3 and PCGT5 Series Models)

- 2 Remove the drip tray, if already installed.
- 3 Loosen (but do not remove) the screws that hold drip tray clips in place.
- 4 Slide the slots on the cup locator over the screws, behind drip tray clips. Push down on the cup locator until it stops.
- 5 Re-tighten the screws and attach the drip tray.



### Connect the Water Supply

- 6 Flush the water supply line prior to installation to purge air and debris from the water filter and tubing.
- 7 Connect the water supply line to the flare fitting on the back of the unit. Leave the water supply valve closed until power is connected.



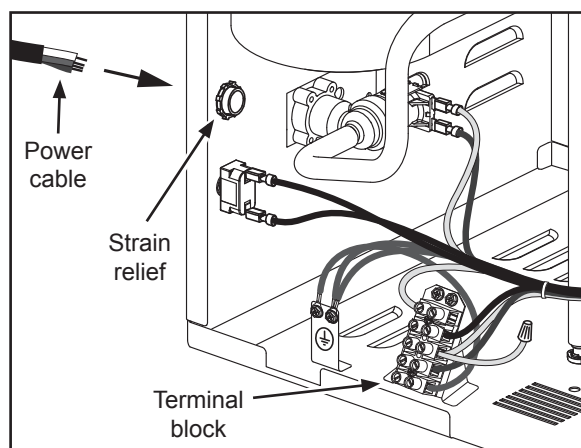
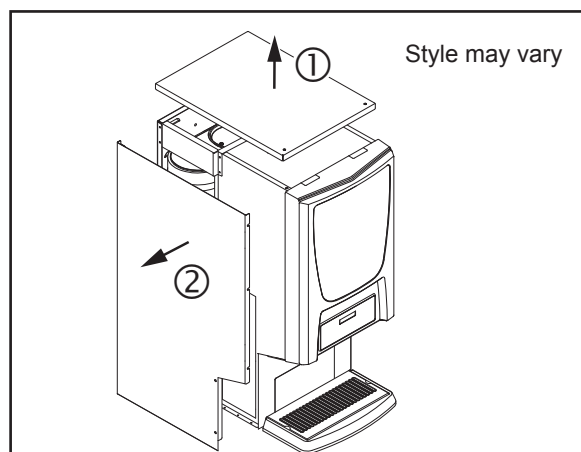


## Setting Up 120/220 Volt Units for 220-240 Volt Operation



**WARNING:** Do not connect the power cord to the power supply until instructed to do so.

- 8 Remove the top and left side covers to expose the terminal block.
- 9 Loosen the strain relief on the back of the unit.
- 10 Disconnect the existing power cable from the terminal block and remove.
- 11 Disconnect and cap the jumper wire between the “C” and “N” terminals on the terminal block.
- 12 Feed the 220-240 Volt power cable through the strain relief, into the unit. The unit may be wired for connection directly to a junction box or for use with a power plug that connects to an electrical outlet meeting the **SPECIFICATIONS**.
- 13 Connect the wires on the power cable to the terminal block inside the unit according to the **ELECTRICAL SCHEMATIC**.
- 14 Tighten the strain relief and replace the covers.



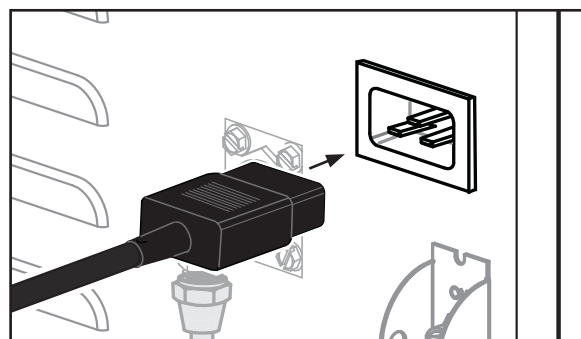
## Connecting the Wiring (Units That Come from the Factory Without a Power Cord Attached)



**WARNING:** Do not connect the power cord to the power supply until instructed to do so.

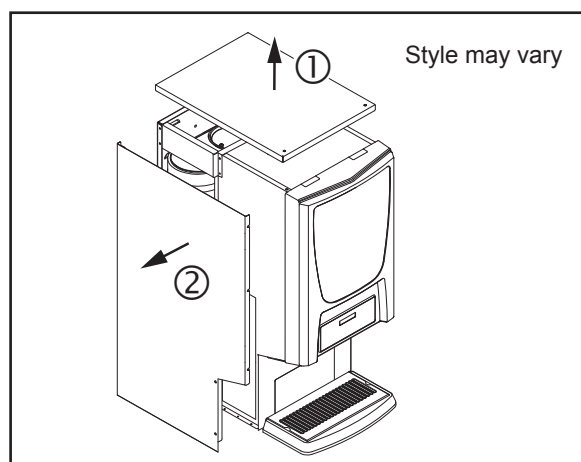
### Units With Power Connector Mounted to the Back

- 15 Connect a C20 IEC power cord (not supplied) compatible with the electrical outlet installed in the facility and that meets specifications.



### Units With Strain Relief Mounted to the Back

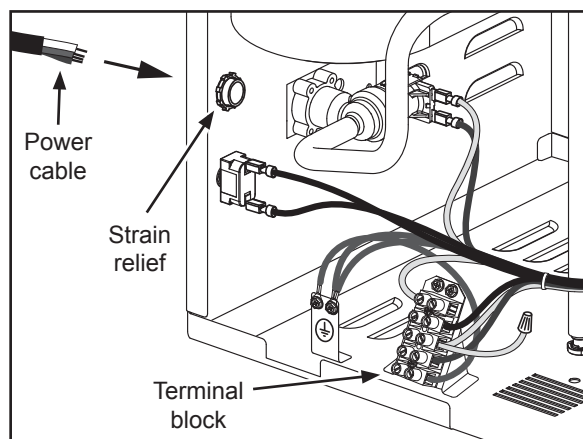
- 16 Remove the top and left side covers to expose the terminal block.
- 17 Loosen the strain relief on the back of the unit.



continued...

## Connecting the Wiring (Units That Come from the Factory Without a Power Cord Attached...cont.)

- 18 Feed the power cable into the unit. The unit may be wired for connection directly to a junction box or for use with a power plug that connects to an electrical outlet meeting the **SPECIFICATIONS**.
- 19 Connect the wires on the power cable to the terminal block inside the unit as specified. See the **ELECTRICAL SCHEMATIC**.
- 20 Tighten the strain relief and replace the front cover.



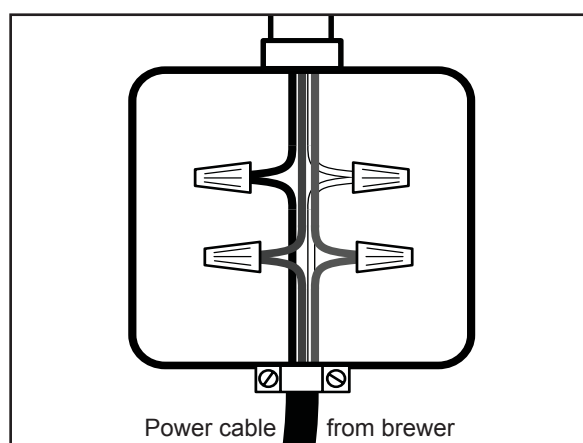
## Electrical Connection

### Connection to a Junction Box



**WARNING:** Turn off power to the junction box at the circuit breaker panel and lock out and tag the circuit breaker before connecting the power cable to the junction box.

- 21 Connect the power cable wires to the terminals in the junction box and replace the cover. See the **ELECTRICAL SCHEMATIC** for the power supply requirements.

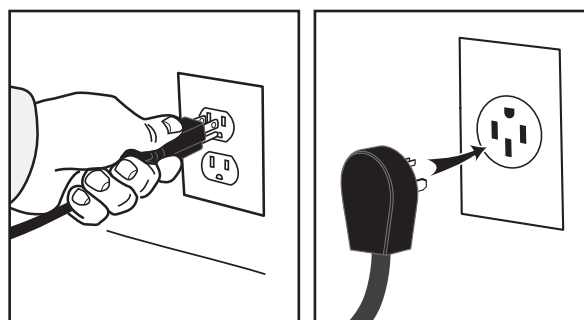
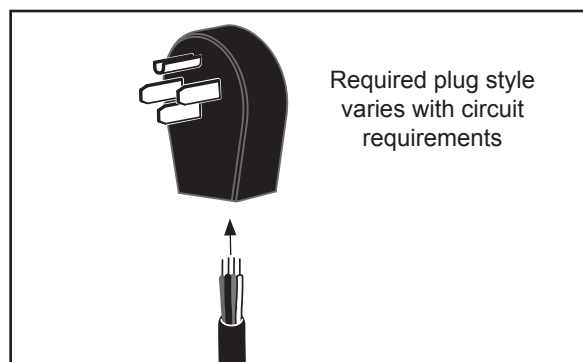


### Connection to an Electrical Outlet



**WARNING:** Connect the power cord only to the appropriate type and size electrical outlet. If it is not compatible, either have the cord replaced or have the electrical outlet upgraded by a licensed electrician. Do not use an extension cord. Do not use a power cord/plug that is damaged.

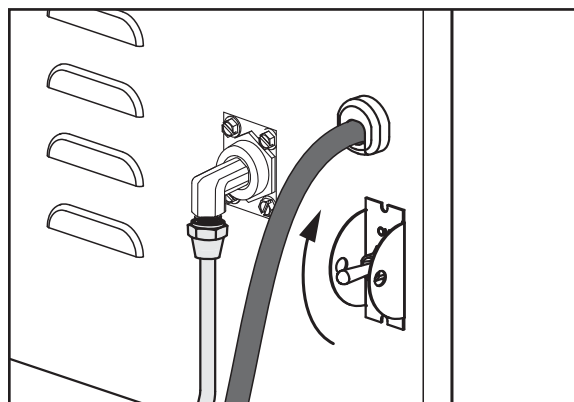
- 22 If not already installed, install the appropriate type of power plug for your locality. Consult local electrical codes to determine the approved type of power plug for your region.
- 23 Connect the power plug to the appropriate electrical outlet.



continued...

## Power Up the Unit

- 24 Turn on the water supply valve.
- 25 Make sure that the circuit breaker supplying power to the dispenser is on.
- 26 Turn the toggle switch on the back of the dispenser to the ON position. The water tank will start to fill. While the tank is filling, inspect the water supply line for leaks.
- 27 When the water level in the tank rises to the correct volume, the heating element(s) will turn on automatically. Depending on the incoming water temperature and the electrical specifications, the water tank typically requires 1 hour to reach the factory set operating temperature. When the water has heated, "Ready to Dispense" should be on the display.
- 28 If the unit is equipped with a hot water faucet, before using it for the first time, dispense 12 oz./350 ml of hot water from the hot water faucet to help purge air from the tubing inside the unit.
- 29 Dispense at least 12 oz./350 ml from each spout, to purge any remaining air from the tubing. See **OPERATING INSTRUCTIONS**. During initial dispensing, and whenever the filter is replaced, you may hear the sounds of air being purged from the filter, tubing and water tank.

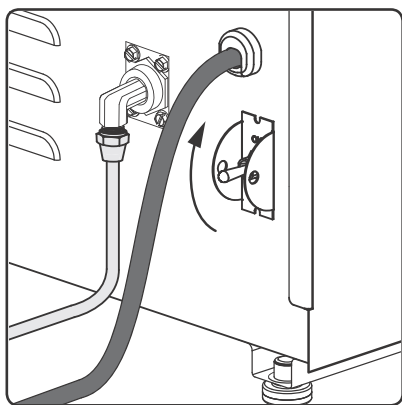


## Dispensing

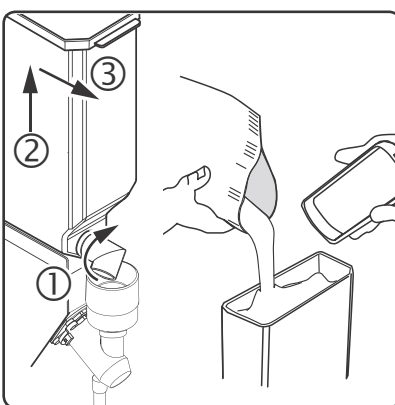


**WARNING - TO AVOID SCALDING, AVOID SPLASHING.** Keep body parts clear of the spout during dispensing. Do not remove the cup during dispensing.

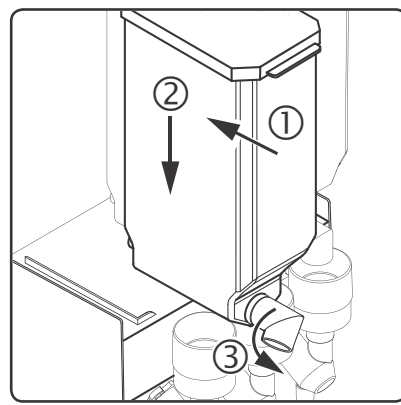
The G3 dispenser is factory preset for optimal performance.



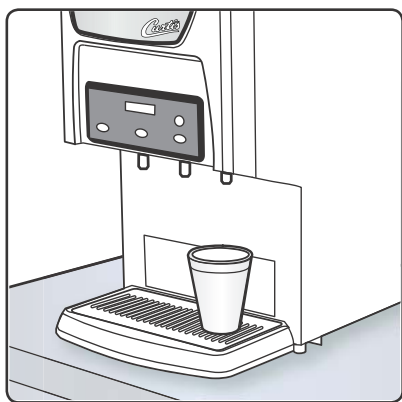
- 1 The unit should be ON. Confirm this at the rear toggle switch. "Ready to Dispense" should be on the display.



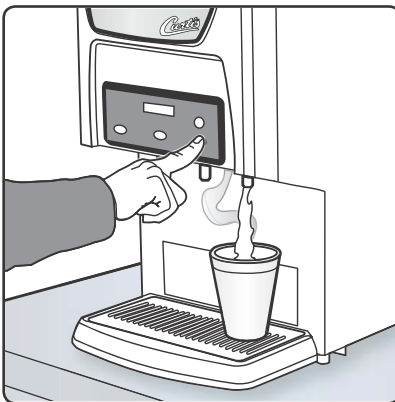
- 2 Open the front panel. On some models the panel swings to the right, on others, the panel swings up. Turn the elbow on each canister to be filled upward, then lift each canister up and out. Fill with powdered cappuccino product.



- 3 Reinstall each canister in the same spot it was removed from. Properly mate the gear socket on the back of each canister with the gear inside the dispenser. Turn the canister elbows downward and close the door.

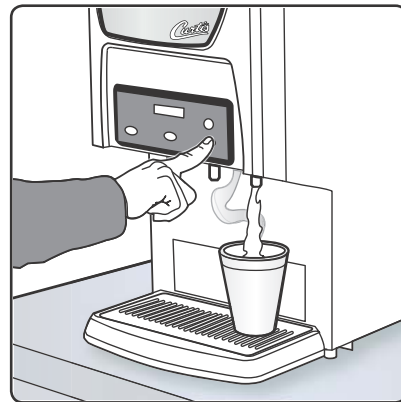


- 4 Place a cup under the spout for the desired flavor. If the dispenser is set for iced coffee, fill the cup with ice first.



### Preset Dispense Models:

- 5A Push and release the dispensing button for the desired flavor and cup size. Remove the cup when product stops flowing.

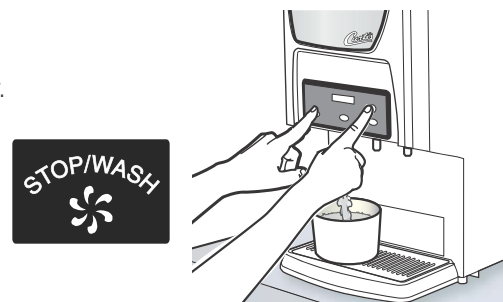


### Manual Dispense Models:

- 5B Push and hold the dispensing button for the desired flavor. Release the button when the cup is  $\frac{3}{4}$  full. Remove the cup when product stops flowing.

### Spout Cleaning - Every 3 or 4 Hours

- 1 Make sure power is ON.
- 2 Place a container under the dispense spout to catch the rinse water.
- 3 Rinse each flavor by pressing and holding the WASH button, while at the same time pressing one of the PUSH dispensing buttons on the control panel. Continue holding the WASH button until the water running from the spout runs clear.



### Cleaning the Exterior - Daily



**WARNING: HOT SURFACES** - To avoid injury, allow the dispenser to cool before cleaning.



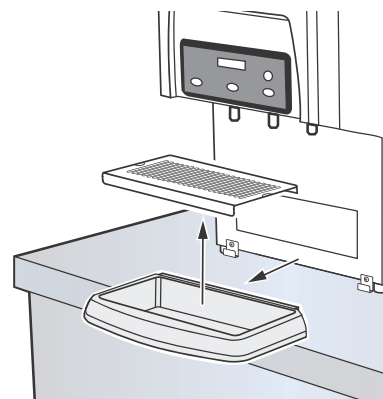
**WARNING: DO NOT** immerse the dispenser in water or any other liquid.



**NOTICE** - Do not use cleaning liquids, compounds or powders containing chlorine (bleach) or corrosives. These products promote corrosion and will damage the finishes. **USE OF THESE PRODUCTS WILL VOID THE WARRANTY.**

**The dispenser should be OFF.** Turn the brewer off by flipping the rear toggle switch to the OFF position.

- 1 Wipe the exterior dispenser surfaces with a damp cloth to remove spills and debris.
- 2 Lift the drip tray up to remove. Remove the louvered grill from the drip tray, then wash out the tray with the detergent solution. Wash the louvered grill, then rinse both pieces with water and dry.
- 3 Wipe and clean the dispensing area with the detergent solution, then reinstall the drip tray.

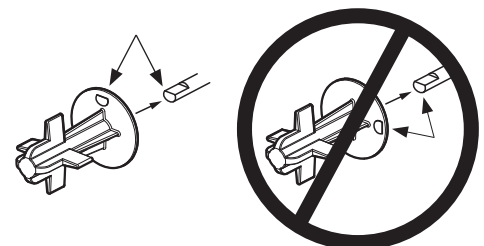
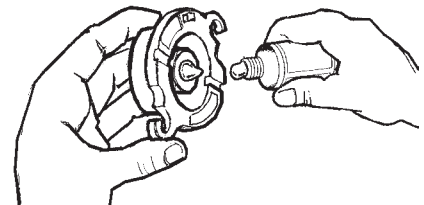
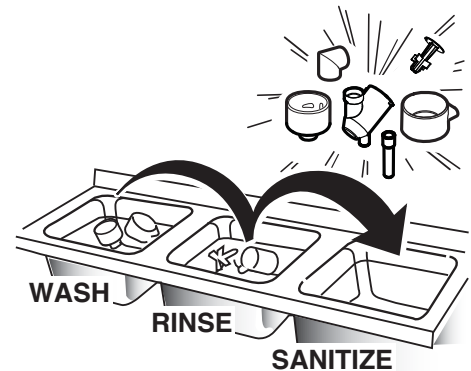
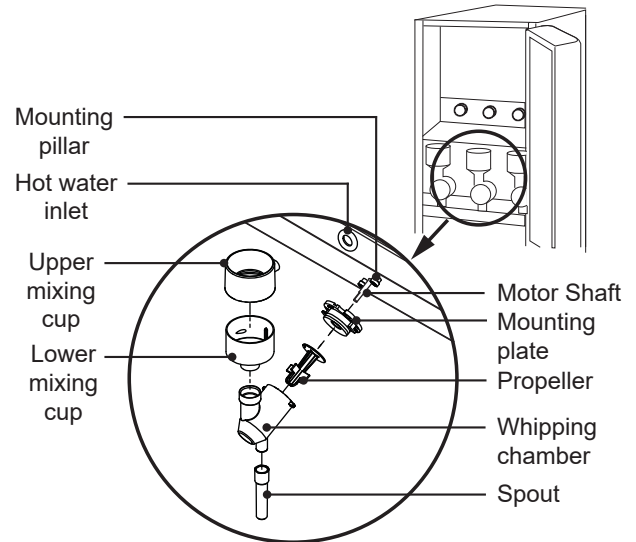


## Cleaning The Whipper Plate Assembly CAFEPc and PCGT Series - Weekly or As Needed

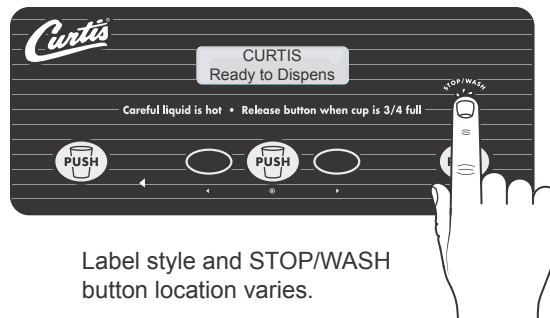
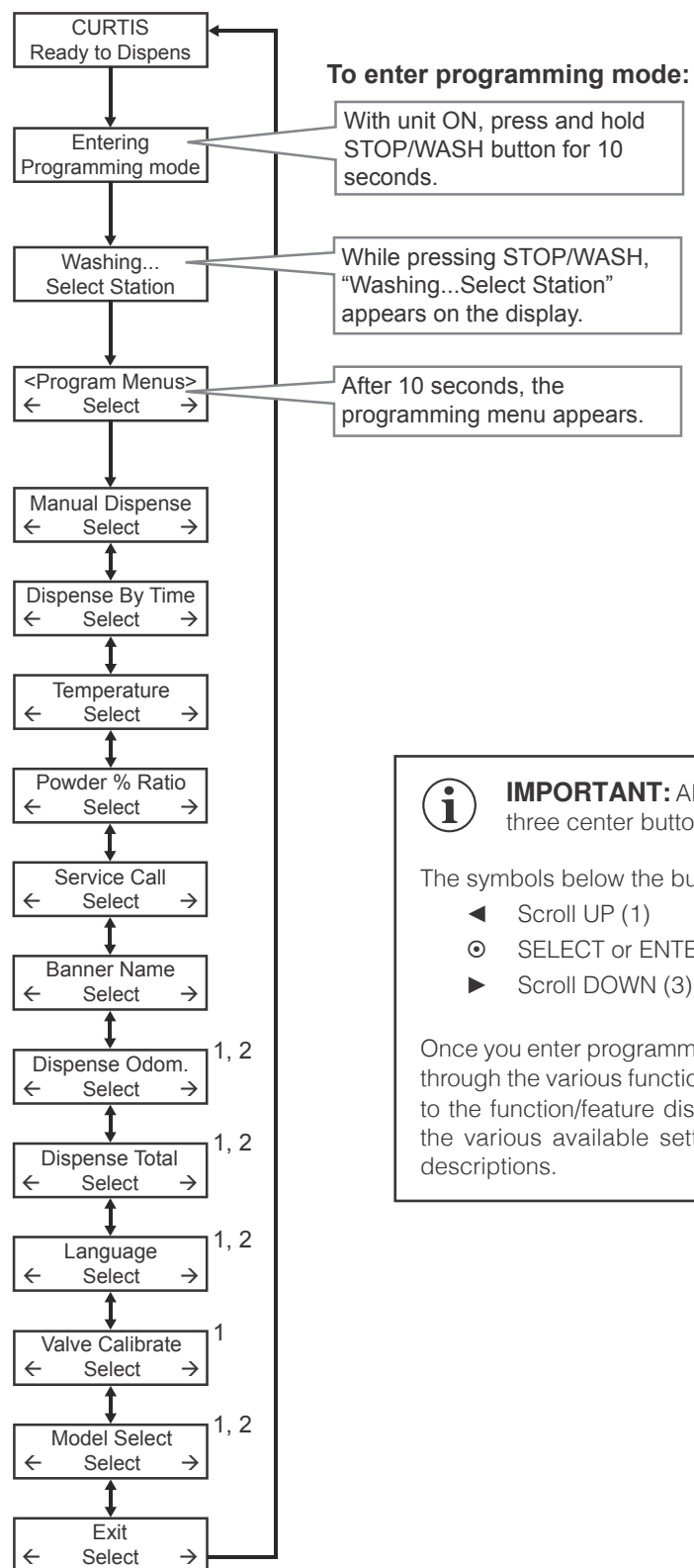
The following cleaning process requires a mild solution of dish-washing detergent and warm water, One-Pro Beverage Equipment Cleaner (Curtis PN WC-79001) and food grade lubricant (Curtis PN WC-4916). Mix the One-Pro cleaner at a ratio of 1 oz. (28 g.) per 5 gal. (19 L) of hot water (122°F/50°C min.).

**The dispenser should be OFF.** Turn the dispenser off by turning the rear toggle switch to the OFF position.

- 1 Remove the dispensing spout from the whipper chamber. Clean the inside using a narrow brush.
- 2 Pull the upper mixing cup forward and twist it up and to the left to separate it from the lower mixing cup.
- 3 To remove the lower mixing cup, pull it up and forward to free it from the hot water inlet.
- 4 Take hold of the whipper chamber. Turn it clock-wise to free it from the mounting plate.
- 5 Pull the whipper propeller off of the motor shaft.
- 6 Wash, rinse, sanitize and air dry the whipper assembly parts using the 3-sink method. Wash in the mild detergent solution, rinse in warm clean water. Place the faucet parts in the One-Pro solution and allow them to soak for 15 minutes. Then rinse thoroughly and air dry.
- 7 Clean the motor shaft with a cloth and mild detergent before removing the mounting plate.
- 8 Twist the mounting plate clockwise and pull it off of the motor shaft.  
**IMPORTANT** - Do not remove the mounting pillars to remove the mounting plate.
- 9 Clean the area behind the mounting plate and the water inlet fitting.
- 10 Lubricate the center seal of the mounting plate with food grade lubricant before reinstalling.
- 11 Reassemble the cleaned whipper assembly parts into the unit in reverse order.



**CAUTION:** When replacing the propeller, line up the "D" shaped mark on the propeller with the "D" shape on the motor shaft. Failure to line up the propeller properly will cause it to fuse with the shaft. This condition is not covered under the warranty.



Label style and STOP/WASH button location varies.

On PCGT6 models, the buttons are located inside the front door.



**IMPORTANT:** All programming functions are performed with the three center buttons.

The symbols below the buttons are:

- ◀ Scroll UP (1)
- ⊙ SELECT or ENTER to save new parameter (2)
- ▶ Scroll DOWN (3)

Once you enter programming mode, press ◀ or ▶ to scroll UP or DOWN through the various functions/features. Press ⊙ (Select) to make changes to the function/feature displayed. Then press ◀ or ▶ to scroll through the various available settings. See *Programming Options* for detailed descriptions.



## Programming Options

See the first page of the **PROGRAMMING GUIDE** for instructions on how to access the programming menu. To exit programming mode, press ► until EXIT appears on the display, then press ⓪.

**Manual Dispense** - All stations are set to Manual Dispense mode at the factory (except on Pre-Set Dispense models). The Manual Dispense programming option is used to change stations that are set to Dispense By Time (see below) to Manual Dispense mode. Press ⓪ to access, then press the PUSH button for the station to be set to Manual Dispense. "Saving Complete!" will appear on the display, then return to the programming menu. Repeat the process to set other stations, if desired, or press ► to go to the next menu.

**Dispense by Time - (default on Pre-Set Dispense Models)** sets the unit to dispense the amount of product by time rather than holding the button until the desired amount is dispensed. Place a cup below the spout for the desired station. Press ⓪ to access. Press the PUSH button for the station to be set to Dispense By Time (Manual Dispense will be disabled for that station). The display will read "To Begin Push PUSH". Push the desired PUSH button. Hot water will start to dispense and the screen will display "To Finish Push PUSH". When the desired volume is reached push the button again. The display will go back to the programming menu. Repeat the process to set other stations if desired, or press ► to go to the next menu.

Default Settings Time Dispense Settings Preset Dispense Models	
Cup Size	Time Setting
LARGE	25.5 Seconds
MEDIUM	16.5 Seconds
SMALL	12.5 Seconds

**Temperature** - sets the temperature of the water held in the water tank. The range is 80°F to 204°F (27°C to 96°C). The recommended temperature for iced coffee units is 96°F. The recommended temperature for all other units is 190°F (88°C). Press ⓪ to access. Press ◀ or ▶ to choose the desired temperature. Then press ⓪ to set and exit. Press ► to continue to the next menu.

**Powder % Ratio** - sets the ratio of product powder dispensed. The higher the powder ratio, the richer the product dispensed. The factory default setting is 60%. The range is from 0% (hot water) to 100% (7 grams per 10%). Press ⓪ to access. Press the PUSH button for the desired station. Press ◀ or ▶ to increase or decrease the ratio, then press ⓪ to set and exit. Press ► to continue to the next menu.

% Ratio	Grams*
10%	7 gm
20%	14 gm
30%	21 gm
40%	28 gm
50%	35 gm
60%	42 gm
70%	49 gm
80%	56 gm
90%	63 gm
100%	70 gm

\*Approximate

**Service Call** - sets the service phone number that appears on the display when the unit detects a SENSOR ERROR or WATER LEVEL ERROR. Press ⓪ to access. Press ◀ or ▶ to choose the number to be changed. Then press ⓪ repeatedly to change the number value. Press ◀ or ▶ to choose the next number to change or choose ex and press ⓪ to exit. Repeat the process to set other stations, or press ► to go to the next menu.

**Banner Name** - changes the banner name that appears on the display (the factory default is **CURTIS**). No banner name appears when all blanks are entered. Press ⓪ to access. Press ◀ or ▶ to choose the letter to change. Then press ⓪ repeatedly to change the letter. Press ◀ or ▶ to choose the next number to change or choose ex and press ⓪ to exit. Press ► to continue to the next menu.

**Dispense Odom<sup>1, 2</sup>** - displays the total dispense cycles since the odometer was last reset. Press ⓪ to access. Press ◀ to exit or ⓪ reset and exit. Press ► to continue to the next menu.

<sup>1</sup> Not present on Pre-Set Dispense models

<sup>2</sup> Not present on PCGT6 series models



## Programming Options (cont.)

**Dispense Total<sup>1, 2</sup>** - when accessed, displays the total dispense cycles on the unit. It cannot be reset. The display returns to the previous screen automatically after a few seconds. Press ► to continue to the next menu.

**Language<sup>1, 2</sup>** - changes the language that appears on the display (the factory default is English). Press ⦿ to access. Press ◀ or ▶ to choose the desired setting, then press ⦿ to exit. Press ► to continue to the next menu.

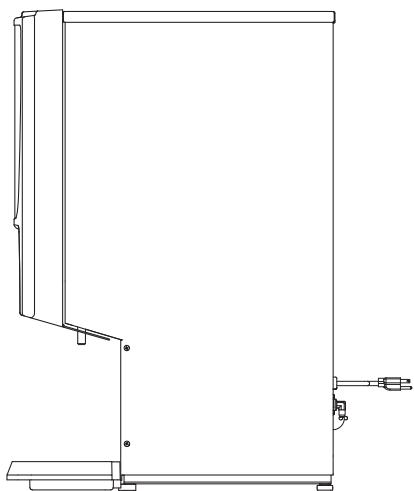
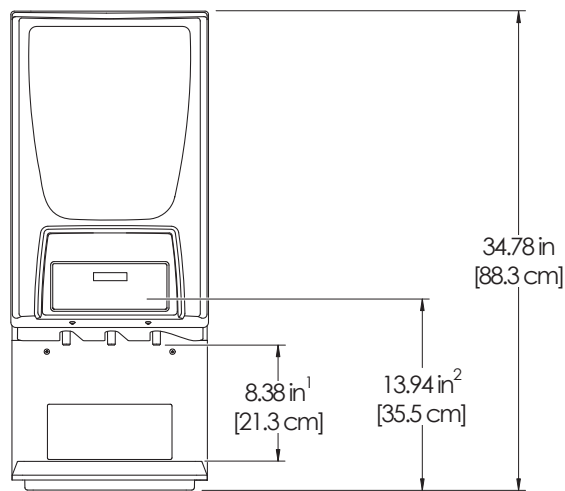
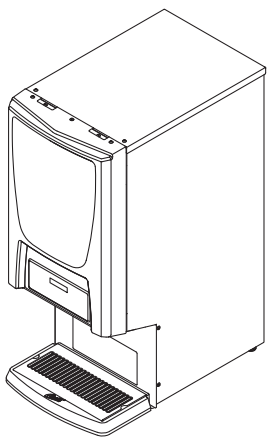
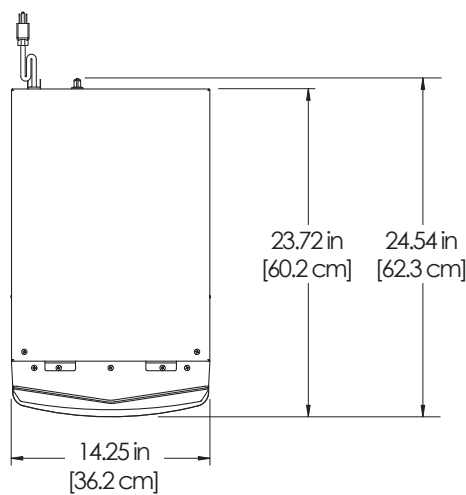
**Valve Calibrate<sup>1</sup>** - pours water (only) from the spout, for 10 seconds to allow the dump valves to be calibrated. See *Dump Valve Calibration* in the *Troubleshooting Section* for the complete dump valve calibration procedure. Press ⦿ to access. The bottom portion of the display will read "Select Station". Place an empty measuring cup under the dispensing spout for the valve to be calibrated. Press the PUSH button above the cup. Water will dispense for 10 seconds. Press ⦿ to measure flow rate for a different valve, or press ► to continue to the next menu.

**Model Select<sup>1, 2</sup>** - changes the model number. The unit must be set to the proper model number for proper operation. Press ⦿ to access. Press ◀ or ▶ until the model number matching the model number label on the unit appears, then press ⦿ to exit. Press ► to continue to the next menu.

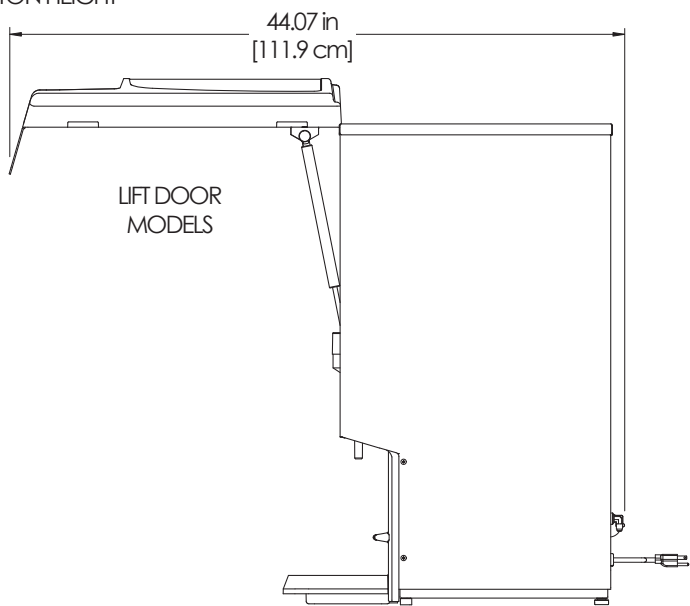
<sup>1</sup> Not present on Pre-Set Dispense models

<sup>2</sup> Not present on PCGT6 series models

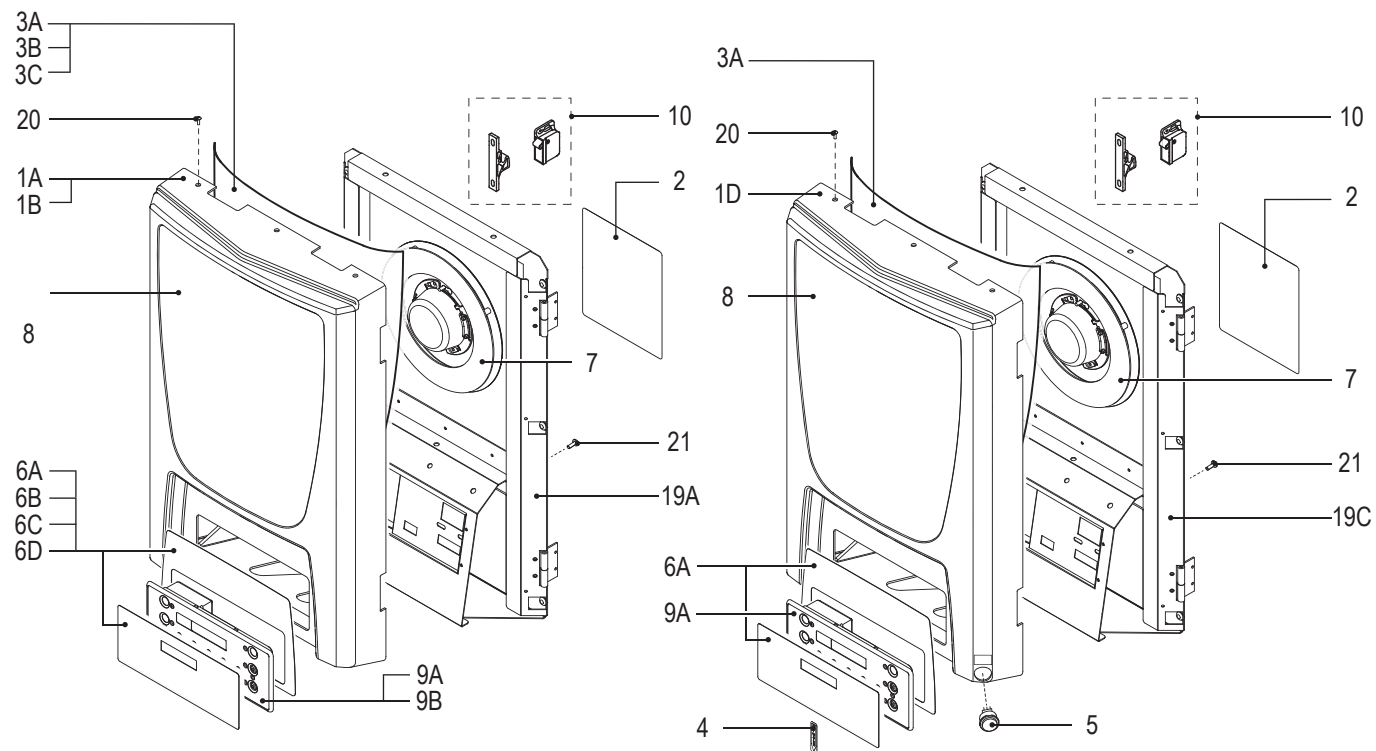
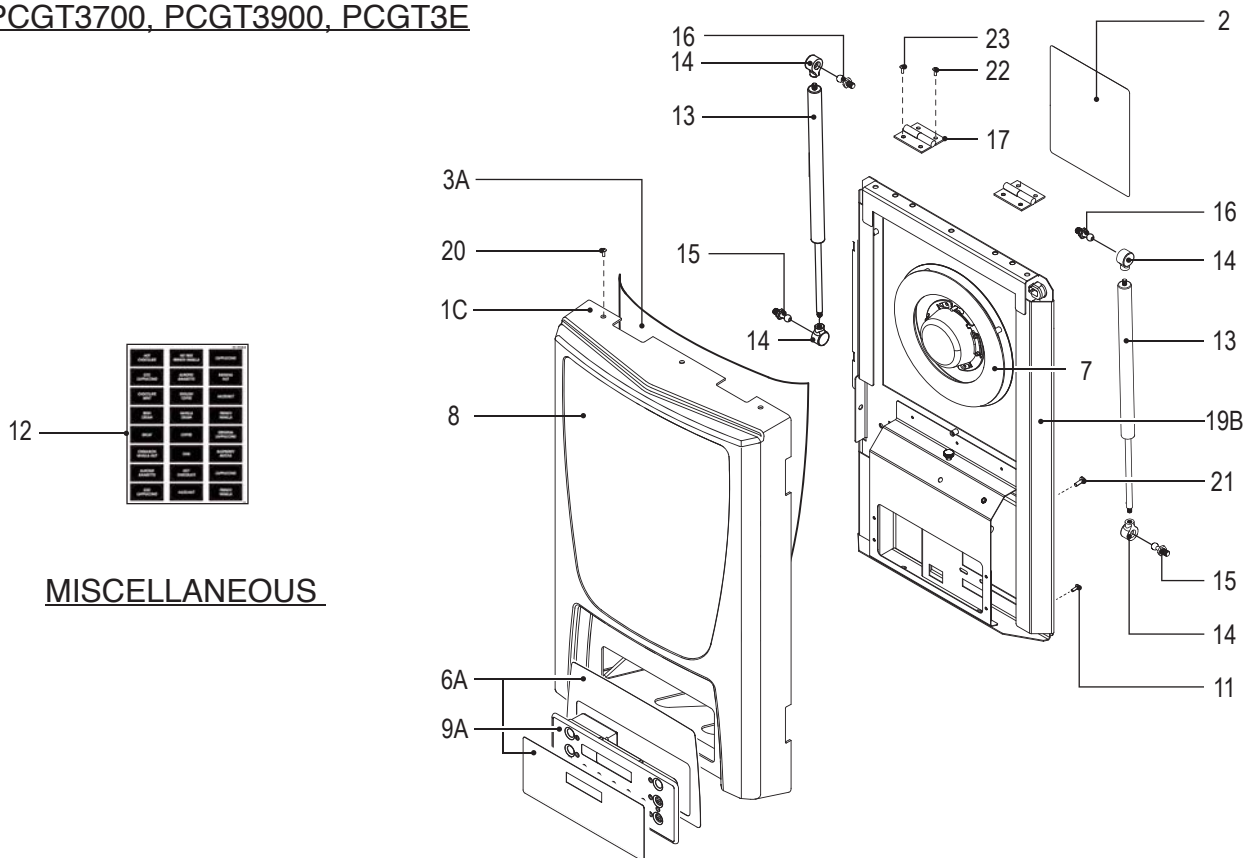
PCGT3



<sup>1</sup>CUP CLEARANCE  
<sup>2</sup>DISPENSE BUTTON HEIGHT



## PCGT3 - Door Assemblies - Exploded View

PCGT3, PCGT3DVPCGT3800, PCGT3DV8080PCGT3700, PCGT3900, PCGT3EPCGT3300MISCELLANEOUS

## PCGT3 - Door Assemblies - Parts List

ITEM #	PART #	DESCRIPTION
1A	CA-1184K <sup>1,2,4,6,7</sup>	KIT, DOOR ASSY PCGT3 (UNITS BUILT 08/01/11 AND LATER, REPLACES CA-1172, CA-1101 & WC-37461)
1B	CA-1158 <sup>1,2,4,6</sup>	DOOR/WINDOW SUPPORT PCGT3 (UNITS BUILT BEFORE 08/01/11)
1C	CA-1184K1 <sup>3</sup>	KIT, DOOR ASSY PCGT3300 (REPLACES CA-1172-101 & CA-1101)
1D	CA-1184K2 <sup>5,8</sup>	COVER, DOOR PCGT3800 (REPLACES CA-1172-102 & CA-1101)
2	WC-39203	LABEL, SERVICING INSTRUCTIONS PC- 1/2/3/4D/CK-3D/HC-1D
3A	CA-1109-01 <sup>1,2,3,5,7,8</sup>	FILM, CURTIS LOGO PCGT-3
3B	CA-1148-01 <sup>4</sup>	FILM, CURTIS LOGO PRE-DISPENSE PCGT3
3C	CA-1144-01 <sup>6</sup>	FILM, LIGHT BOX ICED COFFEE CURTIS
4	WC-38071 <sup>5</sup>	LABEL, HOT WATER TLP/PC's
5	WC-170 <sup>5</sup>	SWITCH, PUSHBUTTON-RED N.O. PCGT5 HOT WATER KIT
6A	WC-39958 <sup>1,2,3,5,6,7,8</sup>	LABEL, DOOR UCM PCGT3 CURTIS LOGO (UNITS BUILT 08/01/11 AND LATER)
6B	WC-39763 <sup>1,2,6</sup>	LABEL, UCM & DOOR PCGT3 CURTIS (UNITS BUILT BEFORE 08/01/11)
6C	WC-39977 <sup>4</sup>	LABEL, UCM & OUTER PRE-SET DISPENSE PCGT3 ADA (UNITS BUILT 08/01/11 AND LATER)
6D	WC-39618 <sup>4</sup>	LABEL ASSY, UCM & DOOR PCGT3 WITH PRE-SET DISPENSING CURTIS (UNITS BUILT BEFORE 08/01/11)
7&	CA-1176K*	KIT, LAMP ASSY LED 120V 9W CAFEPC's
7A	CA-1174	LAMP, LED ASSY 11-12W 36VDC
7B	CA-1174-101	POWER SUPPLY, 120V TO 36VDC

ITEM #	PART #	DESCRIPTION
8	CA-1101 <sup>1,2,4,6</sup>	WINDOW, FRONT CLEAR PCGT-3 (UNITS BUILT BEFORE 08/01/11)
9A	WC-778 <sup>1,2,3,5,6,7,8</sup>	CONTROL MODULE, UCM 120V PCGTs
9B	WC-795 <sup>4</sup>	CONTROL MODULE, UCM 120V EXPR/PCGT3 PRESET DISPENSE
10	CA-1135 <sup>1,2,4,5,6,7,8</sup>	LATCH ASSY, DOOR SIDE MOUNT PCGT'S/ CAFEPC'S/SD2'S
11	CA-1044 <sup>3</sup>	BUMPER, BUTTON BLACK
12	WC-39350-02	LABEL, PANEL FLAVOR PCGT'S CURTIS
13&	WC-4937 <sup>3</sup>	GAS, SPRING 35LBS PCGT3300
14	WC-4933 <sup>3</sup>	RECEPTACLE QUICK RELEASE GAS SPRING
15	WC-4931 <sup>3</sup>	MOUNT, LOWER BALL STUD GAS SPRING
16	WC-4930 <sup>3</sup>	MOUNT, UPPER BALL STUD GAS SPRING
17	WC-4935 <sup>3</sup>	HINGE, ASSY DOOR PCGT5300
18	WC-13434 <sup>3</sup>	HARNESS DOOR EXTENSION PCGT PCGT5300 (NOT SHOWN)
19A <sup>#</sup>	CA-1184KDC <sup>1,2,4,6,7</sup>	KIT, DOOR COMPLETE PCGT3 (REPLACES WC-68165-101)
19B <sup>#</sup>	CA-1184K1DC <sup>3</sup>	KIT, DOOR COMPLETE PCGT3300
19C <sup>#</sup>	CA-1184K2DC <sup>5,8</sup>	KIT, DOOR COMPLETE PCGT3800
20	WC-4442	SCREW, 8-32x3/8 PH HD TRUSS BLACK
21	WC-4403	SCREW, 6-32x3/8 PHIL ROUND HD
22	WC-4468	SCREW, 8-32x5/8 PH HD TRUSS SS
23	WC-4426	SCREW, 8-32x3/8 PH HEAD TRUSS

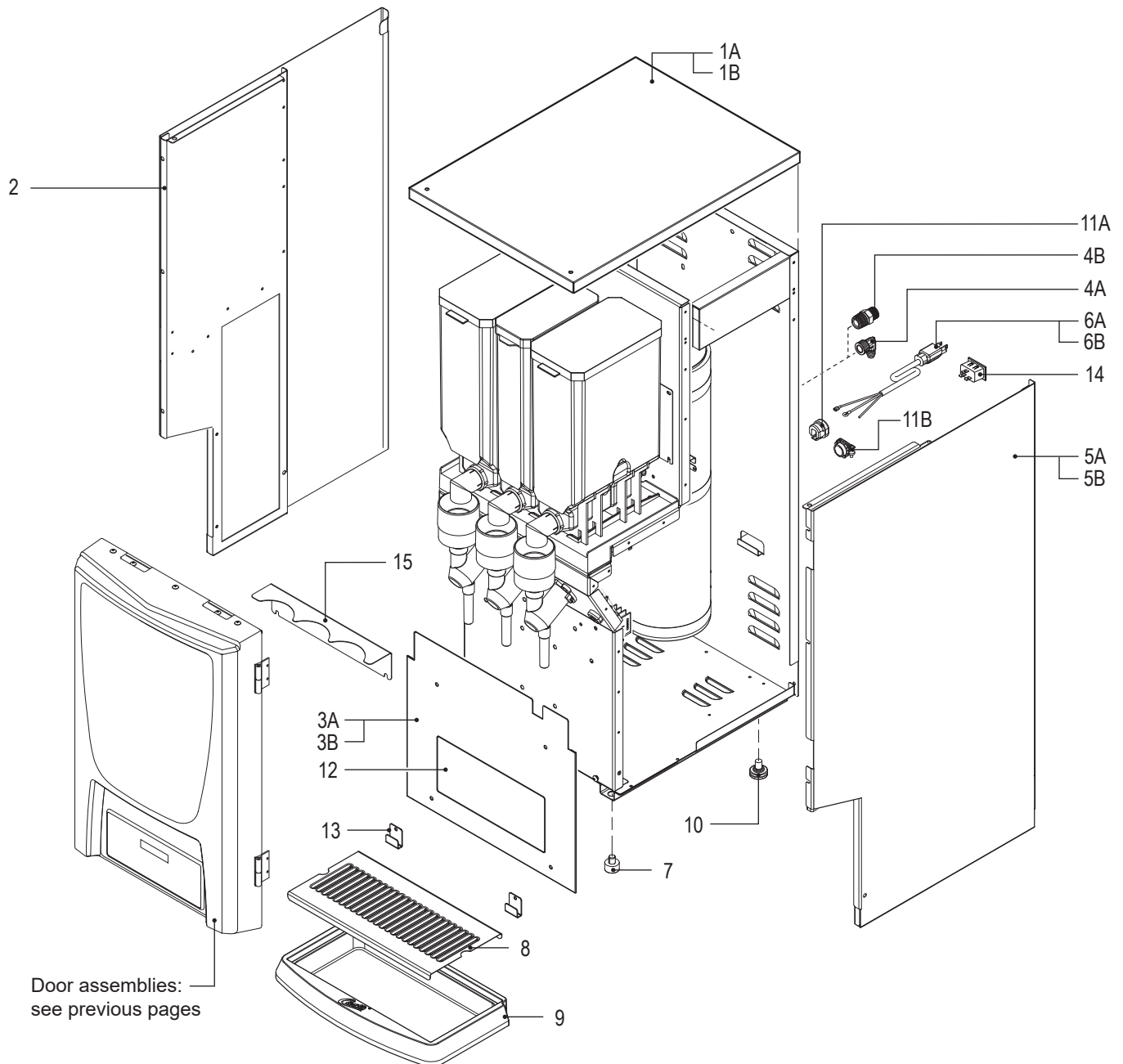
<sup>1</sup>PCGT3, <sup>2</sup>PCGT3DV, <sup>3</sup>PCGT3300, <sup>4</sup>PCGT3700, <sup>5</sup>PCGT3800, <sup>6</sup>PCGT3900, <sup>7</sup>PCGT3E, <sup>8</sup>PCGT3DV8080

\*Also replaces florescent and older style LED light assemblies used on older units.

<sup>#</sup>Complete door assemblies include the plastic front and window, but DO NOT include the UCM and light assembly.

&Recommended parts to stock.

## PCGT3 - Exterior - Exploded View



## PCGT3 - Exterior - Parts List

ITEM #	PART #	DESCRIPTION
1A	WC-58110 <sup>1,2,4,5,6,7,8</sup>	COVER, TOP PCGT3
1B	WC-58110-101 <sup>3</sup>	COVER, TOP PCGT3300 FOR UNITS W/Front LIFT DOOR
2	WC-68123	PANEL, SIDE LEFT PCGT3/5
3A	WC-58351K <sup>1,2,3,4,6,7,8</sup>	KIT, ALCOVE PCGT3*
3B	WC-58352K <sup>5,9</sup>	KIT, ALCOVE PCGT3800*
4A	WC-2401-P	ELBOW 3/8 NPT X 1/4 FLARE PLTD
4B	WC-29149	FITTING, ADAPTER 3/8IN MNPT X G3/8 BSPP SS
5A	WC-68121 <sup>1,2,4,5,6,7,8,9</sup>	PANEL, SIDE RIGHT PCGT3/5
5B	WC-68121-101 <sup>3</sup>	PANEL, SIDE RIGHT PCGT5300
6A <sup>&amp;</sup>	WC-1200 <sup>1,2,3,4,5,6,9</sup>	CORD, 14/3 SJTO 6' BLK W/PLUG
6B	WC-1231-102 <sup>7</sup>	CORD, 2.5 mm <sup>2</sup> 90°C 36A 450/750 V STRIPPED W/FERRULES ONE END

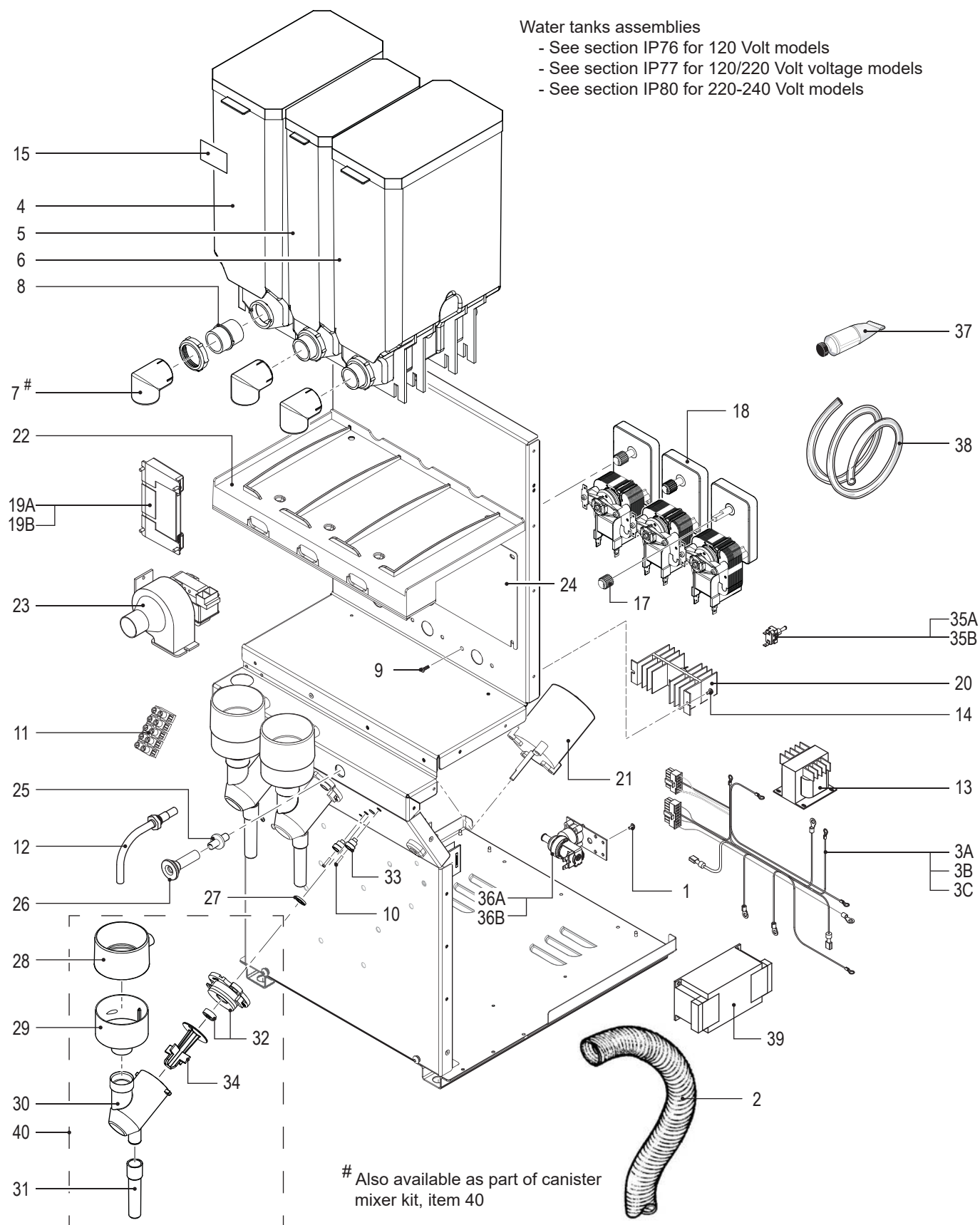
ITEM #	PART #	DESCRIPTION
7	WC-3503	LEG, 3/8"-16 STUD SCREW BUMPER
8 <sup>&amp;</sup>	WC-68160	SCREEN, DRIP TRAY PCGT3
9	CA-1160	DRIP, TRAY PLASTIC PCGT3
10	WC-3518	LEG, GLIDE 3/8"-16 STUD SCREW
11A	WC-1408 <sup>1,3,4,5,6,7</sup>	CORD GRIP, 7/8" O.D.
11B	WC-1412 <sup>2,9</sup>	CORD GRIP, 3/4" FOR METAL CORD TO .81"OD
12	WC-390503	LABEL, SPLASH PANEL CUP LOCATOR PCGT3
13	WC-58274-101	RETAINER, DRIP TRAY
14	WC-1522 <sup>8</sup>	SOCKET, POWER INLET 16A/250V SNAP-IN
15	WC-68202	LOCATOR, CUP PCGT3 (OPTIONAL)

<sup>1</sup>PCGT3, <sup>2</sup>PCGT3DV, <sup>3</sup>PCGT3300, <sup>4</sup>PCGT3700, <sup>5</sup>PCGT3800, <sup>6</sup>PCGT3900, <sup>7</sup>PCGT3E (older units), <sup>8</sup>PCGT3E (newer units), <sup>9</sup>PCGT3DV8080

\*Includes label and drip tray retainer clips (items 12 and 13)

<sup>&</sup>Recommended parts to stock.

## PCGT3 - Interior Components - Exploded View



## PCGT3 - Interior Components - Parts List

ITEM #	PART #	DESCRIPTION
1	WC-4616	SCREW, 1/4-20 x 1/2 PHILLIPS PAN HEAD STAINLESS STEEL
2	CA-1030-17	HOSE, EXTRACTOR FAN 17" LONG ALL PC'S
3A	WC-13245 <sup>1,3,4,5,6</sup>	HARNESS, ASSY COMPLETE PCGT5
3B	WC-13375 <sup>2</sup>	HARNESS ASSY, COMPLETE PCGT3DV PCGT4DV/PCGT5DV
3C	WC-13281 <sup>7</sup>	HARNESS, ASSY PCGT3-31'S (INCLUDES POWER BLOCK AND POWER CABLE)
4 <sup>&amp;</sup>	CA-1113-06L-P	CANISTER, ASSY 10LB LEFT PCGT'S
5 <sup>&amp;</sup>	CA-1112-06-P	CANISTER, ASSY 5LB PCGT'S
6 <sup>&amp;</sup>	CA-1113-06R-P	CANISTER, ASSY 10LB RIGHT PCGT'S
7	CA-1026-03-P	ELBOW, PC/CK/HC
8	CA-1065-03-P	BUSHING, DISCHARGE PC/CK/HC
9	WC-4525	SCREW, 8-32x1/4PHILLIPS TRUSS HD SS
10	WC-4440	SCREW, 8-32x 3/4" LONG PHILLIP
11	WC-314 <sup>2,7</sup>	POWER BLOCK, 5 STATION
12	WC-29602-105 <sup>5</sup>	SPOUT, HOT WATER ASSY PCGT'S
13	WC-710 <sup>7</sup>	TRANSFORMER,240/480 120V,500VA RU/PCGT/CAFEPCC
14	WC-4426	SCREW, 8-32x3/8 PH HEAD TRUSS
15	WC-39107-02	LABEL, FLAVOR ADHESIVE CANISTR GEN USE (SET OF 40 DIFFERENT FLAVORS)
16	WC-13352 <sup>5</sup>	HARNESS ASSY, HW KIT PCGT5 (NOT SHOWN)
17 <sup>&amp;</sup>	CA-1036	GEAR, PLASTIC PC'S USE ON CA-1013
18	WC-37174	KIT, GEAR MOTOR AND GEAR PCGT
19A <sup>&amp;</sup>	WC-780 <sup>1,2,3,5,6,7</sup>	CONTROL MODULE, UPM 120V PCGTs CORK BRAKE
19B	WC-799 <sup>4</sup>	UNIVERSAL POWER MODULE PCGT-DX

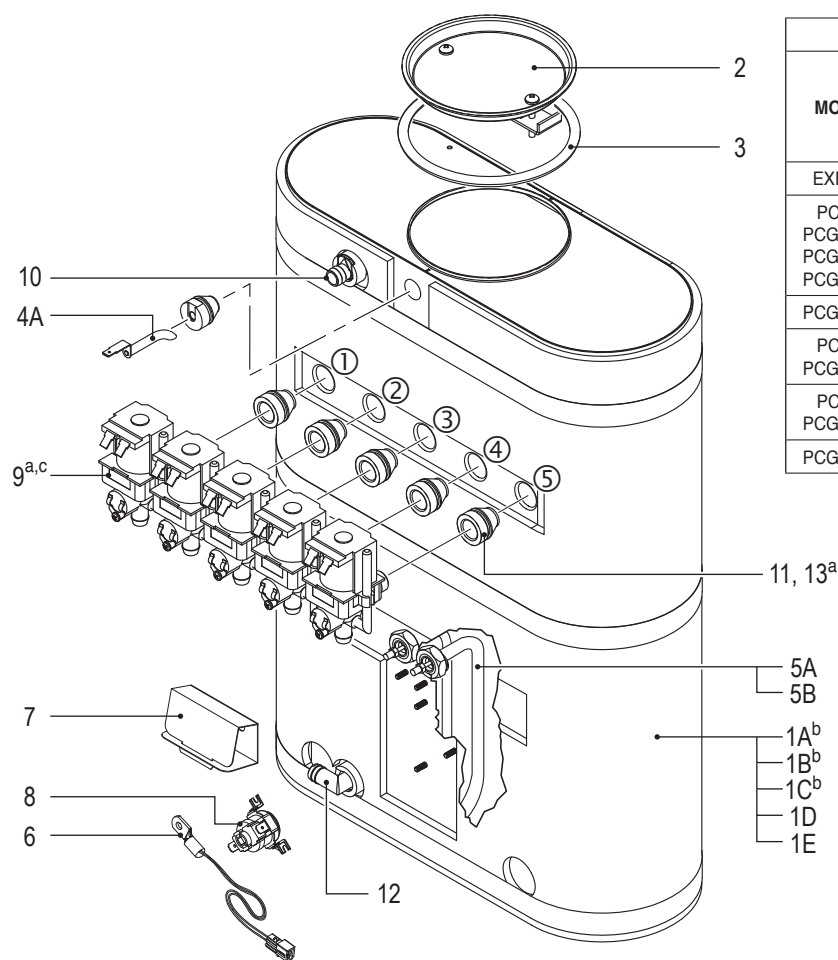
ITEM #	PART #	DESCRIPTION
20	WC-8556	HEATSINK, ASSY DV ALPDS/D500AP TCTD/PTTD
21 <sup>&amp;</sup>	WC-3739	KIT, MOTOR WHIPPER ASSY PC'S MOTOR SCREWS & INSTRUCTIONS
22	WC-66043	CANISTER TRAY, ASSY PLASTIC PC GT3
23	WC-37123	KIT, FAN EXTRACT 120V 29 CFM & BRACKET
24	WC-58121	COVER, DUMP VALVE PCGT-3
25	CA-1095	CONNECTOR, ORIFICE WATER PLASTIC
26	CA-1011-05-P	BULKHEAD, WATER FITTING PCGT'S
27	WC-43791	RING, MOTOR SHAFT PLASTIC PC'S
28	CA-1005-03-P	STEAM TRAP, PC/CK/HC
29	CA-1009-03-P	BOWL, MIXING PC/CK/HC
30	CA-1006-06-P	CHAMBER, WHIPPER OFFSET PCGT'S
31	CA-1037-3Y-P	TUBE, EXTENSION 3.0" LONG YELLOW ALL PCGT'S
32 <sup>&amp;</sup>	WC-37118	KIT, WHIPPER PLATE (3/PKG)
33	CA-1024-05	PILLAR, LOCATION BLACK ALL PC'S
34	CA-1008-07K	KIT, PROPELLER WHIPPER PKG/6 OFFSET BLADES PCGT'S/CAFEPCC'S
35A	WC-102 <sup>1,3,4,5,6</sup>	SWITCH, TOGGLE NON-LIT SPST 15A 125/6A 250VAC RESISTIVE
35B	WC-103 <sup>2,7</sup>	SWITCH, TOGGLE NON-LIT DPST 25A 125/250VAC RESISTIVE
36A	WC-826L <sup>1,2,3,4,5,6</sup>	VALVE, INLET 1 GPM 120V 9W
36B	WC-847 <sup>1,2,3,4,5,6,7</sup>	VALVE, INLET 2 GPM 120V 9W
37	WC-5231	COMPOUND, HEAT SINK 5OZ
38 <sup>&amp;</sup>	WC-5310	TUBE, 5/16 ID x 1/8W SILICONE GEN USE
39	WC-596K <sup>7</sup>	KIT, NOISE FILTER EMI 250V/30A
40	CA-1185K	KIT, CANISTER MIXER ASSY PCGT

<sup>1</sup>PCGT3, <sup>2</sup>PCGT3DV(all models), <sup>3</sup>PCGT3300, <sup>4</sup>PCGT3700, <sup>5</sup>PCGT3800, <sup>6</sup>PCGT3900, <sup>7</sup>PCGT3E

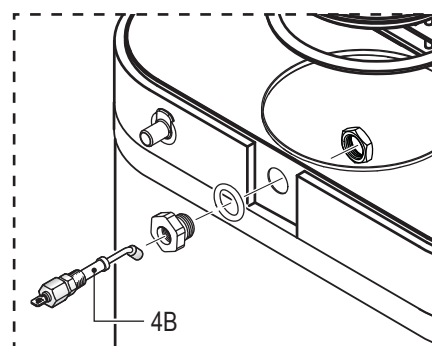
<sup>&</sup>Recommended parts to stock.



## WC-6294/5/6 - Tank Assembly (120 Volt)



CONFIGURATION TABLE			
MODEL	ITEM 9: DUMP VALVES INSTALLED IN POSITIONS:	ITEM 11 (CONICAL BUSHING) INSTALLED IN POSITIONS:	ITEM 13 (BLIND BUSHING) INSTALLED IN POSITIONS:
EXPR10	1,3,4	1,3,4	2,5
PCGT3 PCGT3300 PCGT3700 PCGT3900	1, 2, 3	1, 2, 3	4, 5
PCGT3800	1, 2, 3, 5	1, 2, 3, 5	4
PCGT4 PCGT4300	1, 2, 3, 4	1, 2, 3, 4	5
PCGT5 PCGT5300	1, 2, 3, 4, 5	1, 2, 3, 4, 5	NA
PCGT5800	USE TANK ASSEMBLY WC-62017		

Water Level Probe Detail  
(Older Units)

- <sup>a</sup> See CONFIGURATION TABLE.  
<sup>b</sup> Not for use with units equipped with hot water faucet.  
<sup>c</sup> Valve must be calibrated when replaced. See instructions with kit.

## Parts List

ITEM #	PART #	DESCRIPTION
1A	WC-6294	TANK, COMPLETE PCGT3 1600W-120V W/PLSTC OVRFLW FTTN
1B	WC-6295	TANK, COMPLETE PCGT4 1600W-120V W/PLSTC OVRFLW FTTN
1C	WC-6296	TANK, COMPLETE PCGT5 1600W-120V W/PLSTC OVRFLW FTTN
1D	WC-54126	TANK, ASSY ULTEM FTTNGS PCGT'S
1E	WC-54126-10	TANK, ASSY ULTEM FTTNGS PCGT'S 1450W-120 (USED ON EXPR10)
2	WC-37008	KIT, TANK LID ROUND (INCLUDES ITEM 3)
3	WC-43067*	O-RING, 4-1/2" I.D. X Ø.285 SILICONE TANK LID
4A <sup>1</sup>	WC-5528K*	KIT, WATER LEVEL PROBE, SILICONE
4B <sup>2</sup>	WC-5502-01*	KIT, PROBE, ASSY WATER LEVEL W/HEX FITTING, O-RING & NUT
5A	WC-904-04*	KIT,ELEMENT, HEATING 1.6KW120V W/ JAM NUT & SILICONE O-RING
5B	WC-917-04*	ELEMENT, HEATING 1.45KW 120V W/JAM NUTS & SILICONE O-RING (USED ON EXPR10)

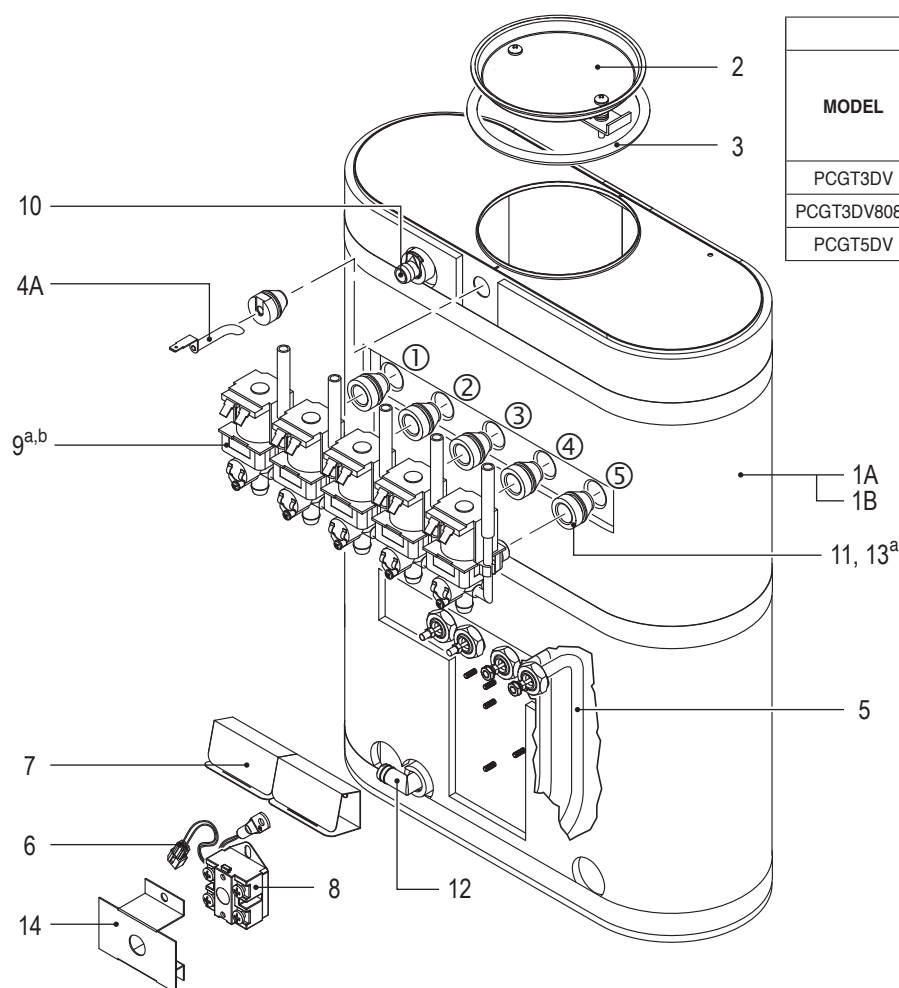
ITEM #	PART #	DESCRIPTION
6	WC-1438-101*	SENSOR, TEMPERATURE TANK
7	WC-4394*	GUARD, SHOCK/HEATING ELEMENT FOR SINGLE HEATING ELEMENT
8	WC-523*	THERMOSTAT, MANUAL RESET 120/ 240 VAC 25A 220 DEG F MAX
9	WC-880E*	VALVE, DUMP 120V 12W PC'S
10	WC-37266*	KIT, FITTING TANK OVERFLOW
11	WC-2627*	BUSHING, CONICAL .583ID X .945 OD .886LG 12mm GEN USE
12	WC-37365*	KIT, FITTING TANK INLET
13	WC-2630*	BUSHING, CONICAL BLIND GEN USE

<sup>1</sup> Units built 01/04/2019 and later.

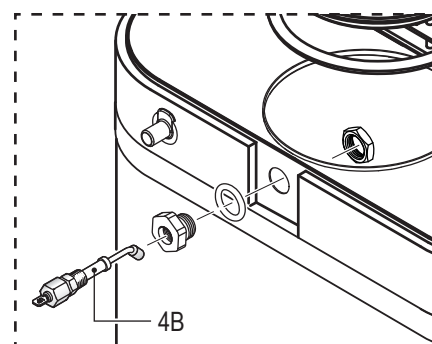
<sup>2</sup> Units built before 01/04/2019.Replaces WC-5527.

\* Recommended parts to stock.

## WC-62111/2 - Tank Assembly (120/220 Volt)



CONFIGURATION TABLE			
MODEL	ITEM 9: DUMP VALVES INSTALLED IN POSITIONS:	ITEM 11 (CONICAL BUSHING) INSTALLED IN POSITIONS:	ITEM 13 (BLIND BUSHING) INSTALLED IN POSITIONS:
PCGT3DV	1, 2, 3	1, 2, 3	4, 5
PCGT3DV8080	1, 2, 3, 5	1, 2, 3, 5	4
PCGT5DV	1, 2, 3, 4, 5	1, 2, 3, 4, 5	NA



Water Level Probe Detail  
(Older Units)

<sup>a</sup> See CONFIGURATION TABLE.

<sup>b</sup> Valve must be calibrated when replaced. See instructions with kit.

## Parts List

ITEM #	PART #	DESCRIPTION
1A	WC-62111	TANK, COMPLETE PCGT3DV 1600W-120V
1B	WC-62112	TANK, COMPLETE PCGT5DV 1600W-120V
2	WC-37008	KIT, TANK LID ROUND (INCLUDES ITEM 3)
3	WC-43067*	O-RING, 4-1/2" I.D. X Ø.285 SILICONE TANK LID
4A <sup>1</sup>	WC-5528K*	KIT, WATER LEVEL PROBE, SILICONE
4B <sup>2</sup>	WC-5502-01*	KIT, PROBE, ASSY WATER LEVEL W/HEX FITTING, O-RING & NUT
5	WC-904-04*	KIT, ELEMENT, HEATING 1.6KW120V W/ JAM NUT & SILICONE O-RING
6	WC-1438-101*	SENSOR, TEMPERATURE TANK
7	WC-4394*	GUARD, SHOCK/HEATING ELEMENT FOR SINGLE HEATING ELEMENT

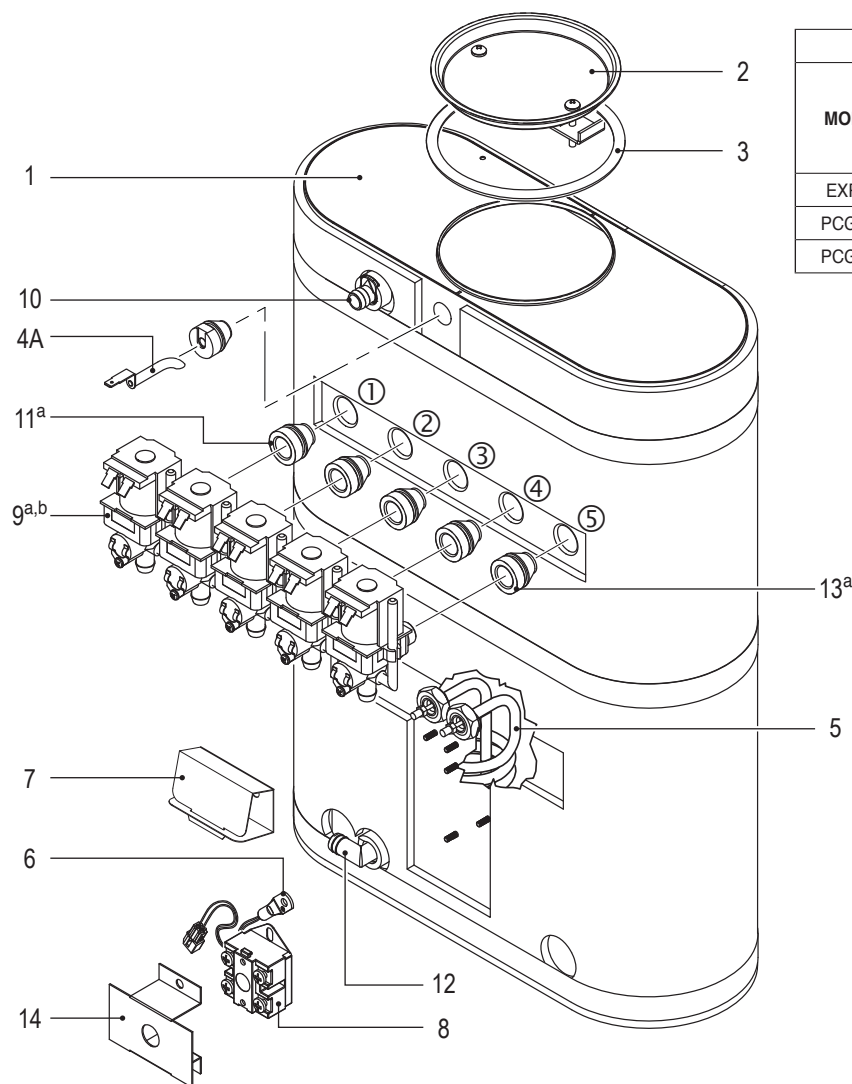
ITEM #	PART #	DESCRIPTION
8	WC-522*	THERMOSTAT, HI LIMIT HEATER CONTROL DPST 277V 40A
9	WC-880E*	VALVE, DUMP 120V 12W PC'S
10	WC-37266*	KIT, FITTING TANK OVERFLOW
11	WC-2627*	BUSHING, CONICAL .583ID X .945 OD .886LG 12mm GEN USE
12	WC-37365*	KIT, FITTING TANK INLET
13	WC-2630*	BUSHING, CONICAL BLIND GEN USE
14	WC-43055*	GUARD, SHOCK RESET THERMOSTAT (WC-522)

<sup>1</sup> Units built 01/04/2019 and later.

<sup>2</sup> Units built before 01/04/2019. Replaces WC-5527.

\* Recommended parts to stock.

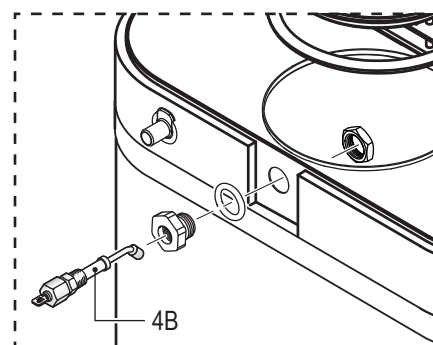
## WC-54126-31 - Tank Assembly (220-240 Volt)



<sup>a</sup> See CONFIGURATION TABLE.

<sup>b</sup> Valve must be calibrated when replaced. See instructions with kit.

CONFIGURATION TABLE			
MODEL	ITEM 9: DUMP VALVES INSTALLED IN POSITIONS:	ITEM 11 (CONICAL BUSHING) INSTALLED IN POSITIONS:	ITEM 13 (BLIND BUSHING) INSTALLED IN POSITIONS:
EXPRES	1,3,4	1,3,4	2,5
PCGT3E	1, 2, 3	1, 2, 3	4, 5
PCGT4E	1, 2, 3, 4	1, 2, 3, 4	5



Water Level Probe Detail  
(Older Units)

## Parts List

ITEM #	PART #	DESCRIPTION
1	WC-54126-31	TANK, ASSY ULTEM FTTNGS PCGT'S EXPORT UNITS
2	WC-37008	KIT, TANK LID ROUND (INCLUDES ITEM 3)
3	WC-43067*	O-RING, 4-1/2" I.D. X Ø.285 SILICONE TANK LID
4A <sup>1</sup>	WC-5528K*	KIT, WATER LEVEL PROBE, SILICONE
4B <sup>2</sup>	WC-5502-01*	KIT, PROBE, ASSY WATER LEVEL W/HEX FITTING, O-RING & NUT
5A <sup>#</sup>	WC-906-04*	KIT, ELEMENT, HEATING 2KW 220V W/ JAM NUT & SILICONE O-RING
5B <sup>&amp;</sup>	WC-922-04*	KIT, ELEMENT HEATING 3.5KW 220V W/JAM NUTS & SILICONE WASHERS
6	WC-1438-101*	SENSOR, TEMPERATURE TANK

<sup>1</sup> Units built 01/04/2019 and later.

<sup>2</sup> Units built before 01/04/2019. Replaces WC-5527.

\* Recommended parts to stock.

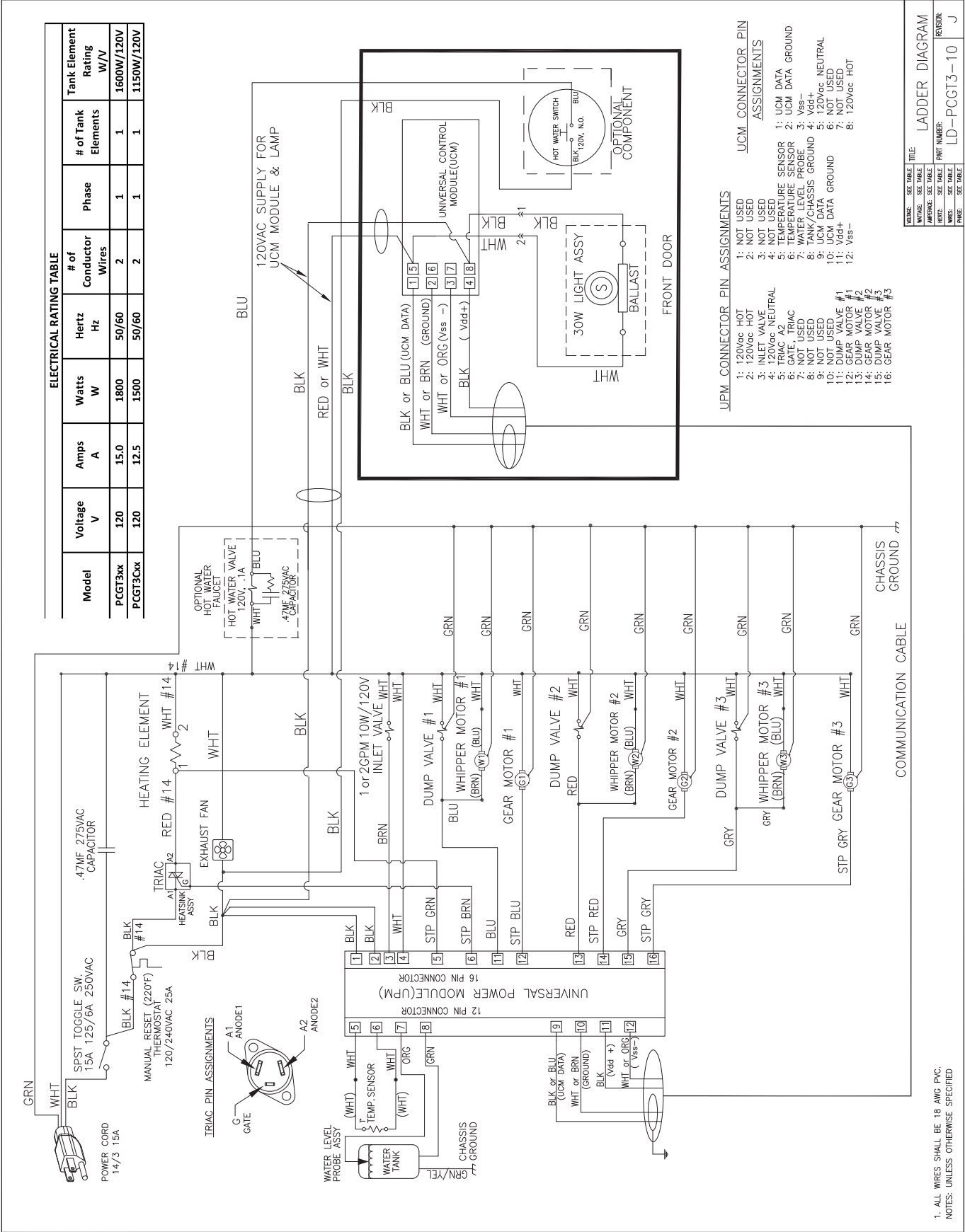
ITEM #	PART #	DESCRIPTION
7	WC-4394*	GUARD, SHOCK/HEATING ELEMENT FOR SINGLE HEATING ELEMENT
8	WC-522*	THERMOSTAT, HI LIMIT HEATER CONTROL DPST 277V 40A
9	WC-880E*	VALVE, DUMP 120V 12W PC'S
10	WC-37266*	KIT, FITTING TANK OVERFLOW
11	WC-2627*	BUSHING, CONICAL .583ID X .945 OD .886LG 12mm GEN USE
12	WC-37365*	KIT, FITTING TANK INLET
13	WC-2630*	BUSHING, CONICAL BLIND GEN USE
14	WC-43055*	GUARD, SHOCK RESET THERMOSTAT (WC-522)

<sup>#</sup> Newer units with 2 kw element. May be used to replace older 3.5 kw elements.

<sup>&</sup> Older units with 3.5 kw element.

\* Recommended parts to stock.

120 Volt Models



VALUE	SEE TABLE	TITLE
IMPEDANCE	SEE TABLE	IMPEDANCE
RESISTANCE	SEE TABLE	RESISTANCE
WAVE	SEE TABLE	WAVE
PAGE	SEE TABLE	PAGE

**LADDER DIAGRAM**

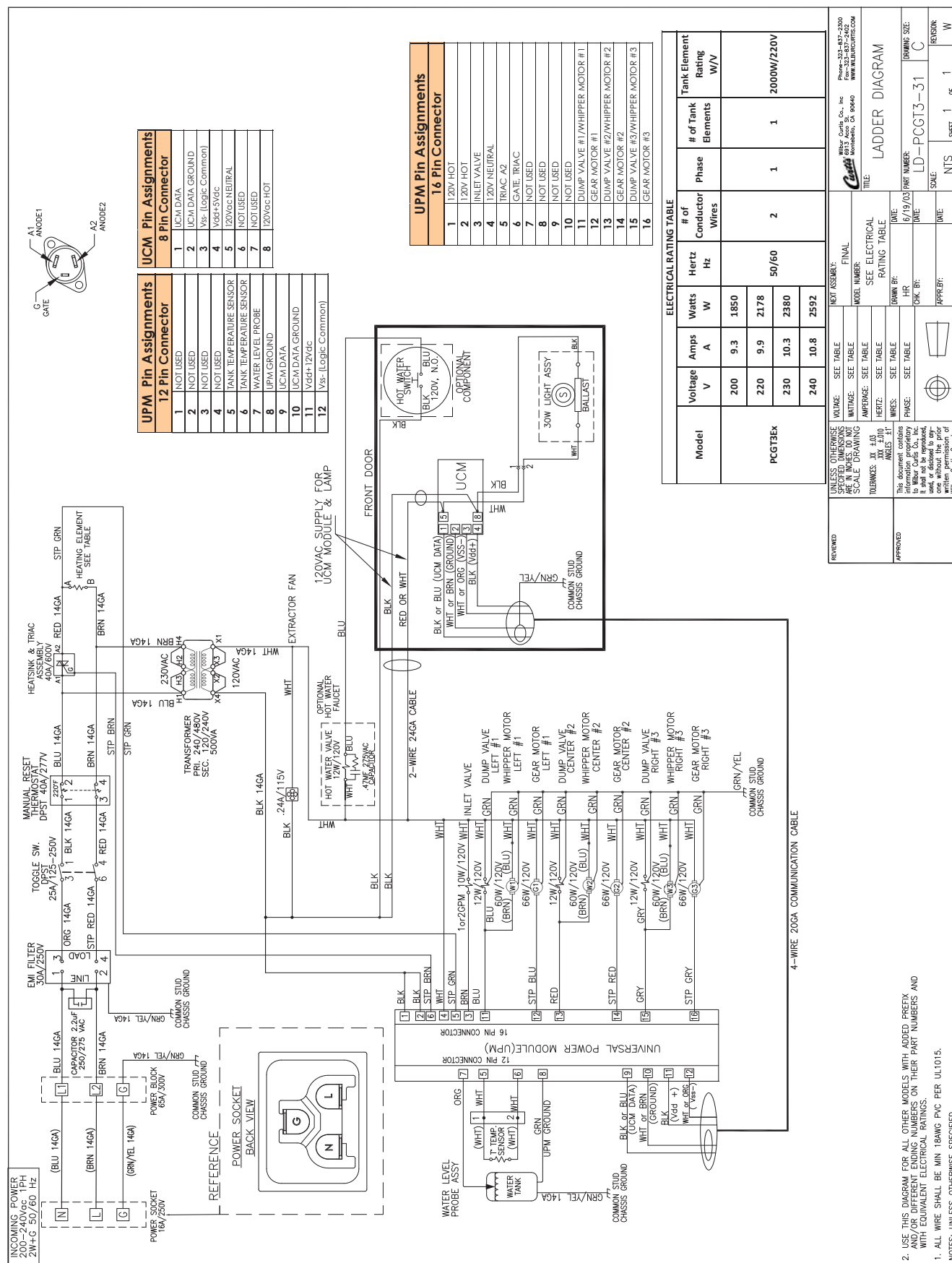
**PART NUMBER**

**LD-PCGT3-10**

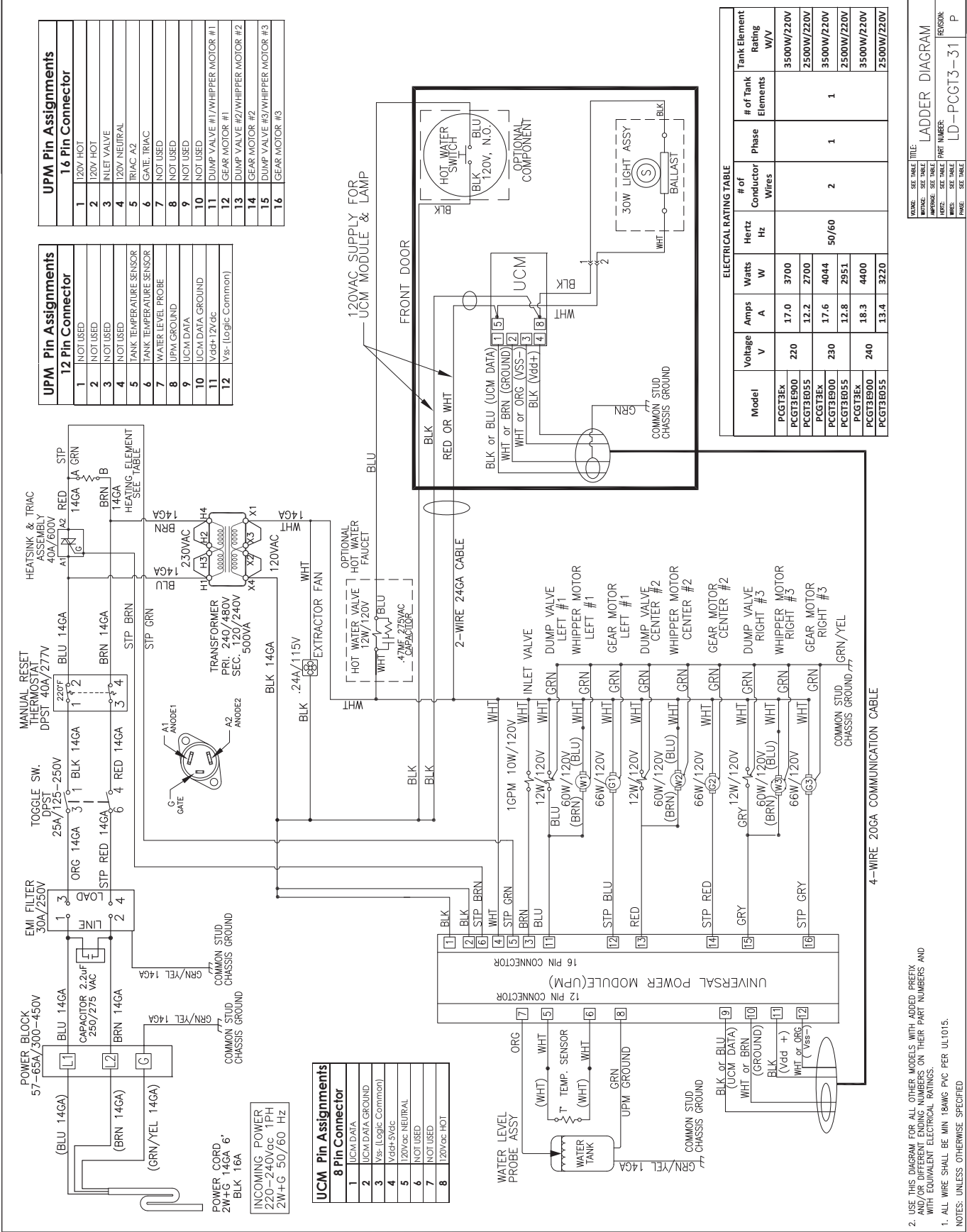
**REVISION**

**J**

## 041421E



Older 220-240 Volt Models (3.5 kW Heating Element)





**ELECTRICAL RATING TABLE**

Model	Voltage V	Amps A	Watts W	Hertz Hz	# of Conductor Wires	Phase	# of Tank Elements	Tank Element Rating W/V
PCGT30Vxx	120	15.0	1800	50/60	2	1	1	(1) 1600W/120V
	120/220	14.5	3000	50/60	3			(2) 1600W/120V
	120	15.0	1800	50/60	2	1	(1) 1600W/120V	
	120/240	16.0	3650	50/60	3			(2) 1600W/120V

**UCM CONNECTOR PIN ASSIGNMENTS**

1: UCM DATA  
2: UCM DATA GROUND  
3: Vss-  
4: Vss+  
5: 120Vac NEUTRAL  
6: NOT USED  
7: NOT USED  
8: 120Vac HOT

**UPM CONNECTOR PIN ASSIGNMENTS**

1: 120Vac HOT  
2: 120Vac HOT  
3: NOT USED  
4: INLET VALVE  
5: TRIAC A2  
6: GATE  
7: NOT USED  
8: TEMPERATURE SENSOR  
9: WATER LEVEL PROBE  
10: CHASSIS GROUND  
11: UCM DATA  
12: Vss-  
13: Vss+  
14: DUMP VALVE #1  
15: DUMP VALVE #2  
16: DUMP VALVE #3  
17: GEAR MOTOR #1  
18: GEAR MOTOR #2  
19: GEAR MOTOR #3

**WATER TANK PROBE ASS'Y**

WATER TANK  
GRN/YEL

**TEMP. SENSOR**

(WHT) (WHT)

**ORIG.**

GRN

**CHASSIS GROUND**

**12 PIN CONNECTOR**

1 BLK 2 BLK 3 BRN 4 WHT 5 STP 6 BRN 7 BLU 8 STP 9 BLU 10 STP 11 RED 12 GRY

**16 PIN CONNECTOR**

1 BLK 2 BLK 3 BRN 4 WHT 5 STP 6 BRN 7 BLU 8 STP 9 BLU 10 STP 11 RED 12 GRY 13 STP 14 RED 15 GRY 16 STP

**MANUAL RESET (220°F) 220°F THERMOSTAT**

1 2 3 4

BLK #14 WHT #14 RED #14 BLU #14

**TOGGLE SWITCH DPST 25A/125-250V**

1 2 3 4

BLK #14 WHT #14 RED #14 BLU #14

**CHASSIS GROUND**

**EXHAUST FAN**

WHT BLK

**OPTIONAL HOT WATER FAUCET**

WHT BLU

**120VAC SUPPLY FOR UCM MODULE & LAMP**

RED or WHT

**FRONT DOOR**

BLK

**HOT WATER SWITCH**

BLU 20V, N.O.

**OPTIONAL COMPONENT**

**30W LIGHT ASSY**

WHT

**BALLAST**

**CHASSIS GROUND**

**COMMUNICATION CABLE**

**TRIAC PIN ASSIGNMENTS**

A1 ANODE1  
A2 ANODE2  
G GATE

**1. ALL WIRES SHALL BE 18 AWG PVC.**

**NOTES: UNLESS OTHERWISE SPECIFIED**

**WARNING:**

**Electric Shock Hazard** - the following procedures are to be performed only by a qualified service technician. Disconnect power when replacing components. Neither Wilbur Curtis Co., Inc. nor the seller can be held responsible for the interpretation of this information, or any liability in connection with its use.

**Scald and Burn Hazard** - keep body parts clear of hot surfaces during troubleshooting.



**IMPORTANT:** If it is necessary to replace the universal power module (UPM), always check all inlet and dump valve coils for a short and replace the valve as necessary, before replacing the module. See the **Valve Test Procedure**, below to test for defective valves.

**Troubleshooting Guidelines**

- If an error message appears on the display, consult the **ERROR CODES** section before troubleshooting.
- A dispenser that is not level may not function properly. Make sure the unit is properly leveled before proceeding.
- This troubleshooting guide identifies some, but not all, of the possible causes for common problems that can occur.
- Use this troubleshooting guide along with the appropriate **ELECTRICAL SCHEMATIC**.

**Valve Test Procedure**

Use a digital multi-meter to measure the resistance of valve coils.

Measure the resistance across the valve coil terminals with the wiring harness disconnected. Reverse the meter leads on the terminals and measure the resistance in the opposite direction. A resistance of less than 100 ohms, in either direction, indicates a shorted coil. The valve must be replaced.

If a shorted coil is not detected, test for an open coil:

- 1 Reconnect the valve terminals to the wiring harness.
- 2 Power up the dispenser with the appropriate cover(s) removed to allow access to the valve.
- 3 Run a dispense cycle while monitoring the voltage at the valve coil terminals. If voltage is present on the terminals, you should hear the valve click open/closed at the moment power is applied or removed from the terminals. The inlet valve should open any time the water tank is not full. If the valve does not open, replace the valve. If voltage is not detected, first check the wiring. If the wiring is OK, replace the UPM.

**Water Not Hot Enough**

- 1 If the water heats, but is not hot enough, first check for the correct temperature setting on the control panel. Reprogram as necessary.
- 2 If the temperature setting is OK, but the actual water temperature does not match the setting on the control panel, replace the temperature sensor.

**Water Heats More Slowly Than Usual**

- 1 Check for power across the terminals of the heating element(s). If power is being supplied, disconnect the heating element(s) and check for continuity. Replace a heating element if the resistance is too high (nominal resistance is 13 Ohms).
- 2 If there is no power to the heating element(s), check the wiring to any element that does not have the proper voltage across it. Also check for corroded connections anywhere between the power cord and the heating element(s).



### Water Does Not Heat At All

- Check to see if the water level in the tank is in contact with the water level probe. If not, see *Tank Does Not Fill*. The water will not heat unless it is in contact with the probe.
- If the water heats, but is not hot enough, see *Water Not Hot Enough*.
- If **Ready to Dispens** appears on the display, but the water is not hot, check the resistance across the leads of the temperature sensor. If the resistance is less than 10 k and the water is not hot, replace the temperature sensor. If the sensor resistance is above 10 k when the water is cool, replace the universal power module (UPM).

If **Heating...** appears on the display, but the water is not hot, follow the steps below. The following steps are performed with the rear toggle switch in the ON position.

- 1 Check for power across the terminals of the heating element(s). If power is being supplied, remove the wires and check for an open heating element.
- 2 If there is no power to the element(s), trace the circuit back (using the *ELECTRICAL SCHEMATIC*) to the power cord to find out where power is lost. If there is power into the triac but not out, see the following step.
- 3 If there is power into a triac, but not out, check for power at the gate terminal. If the connections are good and power is being supplied to the triac, but there is no voltage out of A2, replace the triac. If power is not being supplied from the UPM, but **Heating...** appears on the display, check the wiring from the UPM to the triac. If the wiring is OK, replace the UPM.

### Water Too Hot (Boiling or Excessive Steaming)



**IMPORTANT:** If the unit is being operated at elevations above 2000 feet (600 m), before proceeding, make sure that the control panel temperature is set to the factory default setting of 190°F (88°C). The boiling point of water goes down with increases in elevation.

- 1 If **Over Temp Sensor** or **Ready to Dispens** appears on the display and the water is too hot, go to *Over Temp Sensor Error Message*.
- 2 If the display reads **Heating...** constantly, first check to make sure that the temperature sensor is attached tightly to the tank and that heat sink compound was used. A properly mounted sensor should have a resistance of around 7 k when the water is hot. If not, replace the sensor.
- 3 Check to see if the universal power module (UPM) constantly has power output to the triac, regardless of the resistance of the temperature sensor. If so, the UPM is probably bad.
- 4 If the UPM is working properly, check for a bad triac.

### Sensor Error Message

This error indicates a malfunction (open circuit) in the temperature sensor system. Once the malfunction is corrected, the error message must be cleared. To reset the dispenser and return to normal operation, turn the toggle switch on the back of the unit to the OFF position for 5 seconds, then back ON.

- 1 Check the resistance across the leads of the temperature sensor while it is disconnected from the universal power module (UPM). If an open circuit is measured (resistance above 200 k), replace the sensor.
- 2 If the sensor resistance is less than 200 k check the sensor wires for corrosion and reconnect them to the UPM. Afterward, if the error message comes back after resetting the control and power modules, replace the UPM.

**No Power - Display Not Lit**

- 1 Make sure the circuit breaker to the circuit supplying power to the unit is not tripped and is turned on.
- 2 On dispensers with a power plug, make sure it is connected to the power receptacle.
- 3 Make sure that the main power toggle switch on the back panel is turned ON.
- 4 Verify that all wires from the power cord are properly connected inside the unit. Loose connections can create heat. Check to make sure the wires are not burned/overheated. Check chassis ground.
- 5 Check to make sure power and ground are being supplied to the universal control module (UCM). If there is power into the UCM, but the display is blank, the UCM is probably bad.
- 6 If there is no power into the UCM, trace the circuit back (using the wiring diagram) to the power cord to find out where power is lost. If there is power into the thermostat reset switch, but not out, see step 7.
- 7 If there is power into the thermostat reset switch, but not out, check to make sure that the water tank is not empty. If the tank is empty, the reset switch has probably opened up due to a low water level, go to **Water Tank Does Not Fill**. If there is water in the tank, but no power out, push in on the reset switch button to see if it restores power. If power is restored, check to make sure that the switch is not opening up at the wrong temperature (the switch should not open up at normal operating water temperatures). If there is still no power through the switch after pushing the button, replace the thermostat reset switch.

**Water Tank Overfills**

- 1 Turn the toggle switch on the back of the unit ON and OFF. If water continues to flow when the switch is in both positions, replace the inlet valve.
- 2 If water stops flowing to the water tank when the toggle switch is turned OFF and continues when the switch is turned back ON, remove the orange wire from the water probe on the tank. While power is ON, short the end of the orange wire to the metal surface on the outside of the tank. If the water tank stops filling when the orange wire is shorted to the tank, check for a corroded connection at the water probe.
- 3 If water does not stop flowing when the orange wire is shorted to the tank, check the tank ground connection and the continuity of the orange wire connecting to the universal power module (UPM). If both are OK, replace the UPM.


**Water Tank Does Not Fill**

**IMPORTANT:** No water or low water in the tank can cause the tank to overheat, resulting in the thermostat reset switch opening. If after correcting a tank fill problem there is no power to the control panel, push the reset switch button.

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- 1 Check to make sure the water supply is turned on. Check for a plugged water supply line, clogged water filter or plugged inlet valve.
- 2 If there are no plugs in the water supply line, check for power across the inlet valve terminals. If power is being supplied, but there is no water flow, replace the inlet valve.
- 3 If power is not being supplied to the inlet valve, check the wires between the universal power module (UPM) and the inlet valve. Check for corroded connections.
- 4 If the wiring between the UPM and the inlet valve is OK, but there is no power to the inlet valve, remove the orange wire from the water tank probe. If the water tank starts to fill, replace the water probe. If the water tank does not start to fill, replace the UPM.

**Water Level Error Message**

Water level fill error or overflow. This error message occurs when the inlet valve solenoid has been on too long during initial fill or tank refill. See the **ERROR CODES** section for the maximum times allowed. Once the malfunction is corrected, the error message must be cleared. To reset the unit and return to normal operation, turn the toggle switch on the back of the unit to the OFF position for 5 seconds, then back ON, or press and hold the  button on the control panel.

- 1 Check to make sure that the flow rate from the water supply line meets the minimum flow rate specifications for the dispenser. Also check the water pressure. See the **SPECIFICATIONS** section.
- 2 Check for blockage at the inlet valve inlet or outlet. Check for blockage in the tubing between the inlet valve and the water tank.
- 3 Check the water probe wire for an open condition or corroded connections.
- 4 If the probe connections are OK, cycle power to the unit by turning the rear toggle switch OFF, then ON. Check to see if power is applied to the inlet valve terminals. If power is applied to the terminals, but there is no water flow, replace the inlet valve.
- 5 Check for power from the universal power module (UPM) to the inlet valve. If the wiring is OK, replace the UPM.

**Water Flows From Dispenser Spout Constantly**

- 1 Check to see if water continues to flow from the spout when the toggle switch is turned OFF. Replace any valve that is stuck open.
- 2 If one or more of the valves mentioned in step 1 turns on when the toggle switch on the back is ON and turns off when the switch is OFF, replace the universal power module (UPM).

**No Water Flows From the Spout While “Dispensing...” Appears on the Display**

Condition: Whipper motor runs and powder comes out of the spout, but no water:

- 1 Check to see if power is being supplied to the associated dump valve when the dispense button is pushed. If power is being supplied, but there is no water flow, replace the valve.
- 2 If power is not being supplied to the dump valve during the dispense cycle, first check the wiring from the universal power module (UPM) to the valve.
- 3 If the wiring is OK, check for power output from the UPM while the dispense button is being pushed. Replace the UPM if there is no power out.

**Cup Not Filled To Normal Level During Dispensing or Overflows (Preset Dispense Models Only)**

Check to make sure that the universal control module (UCM) Dispense by Time setting is correct. See **PROGRAMMING GUIDE** section.

**Only Water is Dispensed**

Condition: Water flows and whipper motor runs, but NO powder is dispensed:

- 1 Check to see if the canister is empty.
- 2 Check to see if the powder is damp, which will inhibit powder flow. Moisture build up inside the canister is usually due to an exhaust fan not working. Check to make sure that the fan is getting power and/or that the fan is turning.
- 3 Check to make sure that the Powder % Ratio is not set to 0%. See the **PROGRAMMING GUIDE** section.
- 4 Remove the canister. Push the dispense button and check to make sure that the canister gear at the back of the compartment is turning. If it is, check for a stripped gear on both the canister and on the gear motor shaft. If the gears are OK, check the canister auger assembly.

**Product Dispensed Into Cup is Weak**

**IMPORTANT:** Dump valves should NOT be field adjusted to change product strength. Product strength adjustments should be done through programming on the front panel only.

Condition: Water flows and whipper motor runs, but amount of powder flow is too low:

- 1 Check to see if the canister is full.
- 2 Check to see if the powder is damp, which will inhibit powder flow. Moisture build up inside the canister is usually due to an exhaust fan not working. Check to make sure that the fan is getting power and/or that the fan is turning.
- 3 Check to make sure that the Powder % Ratio is properly set. See the *PROGRAMMING GUIDE* section.
- 4 Check for a stripped gear on both the canister and on the gear motor shaft. If the gears are OK, check the canister.

**Whipper Motor Does Not Run During Dispensing**

Condition: Whipper motor does not run, but water and powder are flowing when the dispense button is pushed:

- 1 Check to see if power is being supplied to the associated whipper motor when the dispense button is pushed. If power is being supplied, but the motor does not run, replace the motor.
- 2 If power is not being supplied to the whipper motor during the dispense cycle, first check the wiring from the universal power module (UPM) to the motor.
- 3 If the wiring is OK, check for power output from the UPM while the dispense button is being pressed. Replace the UPM if there is no power out.

**Dispenser Does Not Respond (at all) When Dispense Button is Pushed**

- 1 If **Dispensing...** appears on the display, check for faulty wiring and connections between the universal control module (UCM) and the universal power module (UPM). If the wiring is OK, but NOTHING happens when **Dispensing...** appears on the display, suspect the UCM or the UPM.
- 2 If **Dispensing...** does not appear on the display, check for a faulty membrane panel or smart membrane encoder (if applicable). Then, check for a bad universal control module (UCM).

**Dispenser Overflows During Dispensing**

**Manual dispense models:** Make sure to release the dispense button when the cup is 3/4 full.

**Preset dispense models:** Check the Dispense by Time setting. See the *PROGRAMMING GUIDE* section.

**Front Panel Light Not Working**

- 1 Units with tubular shaped LED light: With the power switch on, check for 120 Vac into the light power supply and 36 Vdc out. Check for 36 Vdc to the light fixture. If power is being supplied to the light but does not come on, replace the light assembly.
- 2 Units with florescent or new style LED light assembly\*: Check to make sure power is being supplied to the light fixture (power switch on back of unit must be on). If power is being supplied to the light but it does not come on, replace the light assembly.

\*See diagram in *ILLUSTRATED PARTS LIST*.

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### Dump Valve Calibration

After installing a new dump valve, do not reinstall the dump valve cover and canisters, so that you can perform the calibration steps below:

- 1 Turn the toggle switch on the back of the unit to the ON position. Wait for the ready light to come on.
- 2 Place a measuring cup below the spout connected to the dump valve that was replaced.
- 3 Push the DISPENSE button for the spout connected to the dump valve that was replaced. Time the flow rate.\* Water should flow at a rate of 7 oz. (8 oz. Max) in 10 seconds. If the flow rate is OK, skip to step 6. If the flow rate is too high or too low, perform the steps that follow.
- 4 Open the door on the front of the unit. Using a 6 mm hex wrench, turn the adjustment screw on the front of the valve one half turn. Turn counterclockwise to increase the flow rate or clockwise to decrease.
- 5 Close the door and recheck the flow rate. If the flow rate is 7 oz. (8 oz. Max) in 10 seconds, replace the dump valve cover and canisters. If the flow rate is still out of calibration, repeat steps 4 and 5 until the flow rate is correct.
- 6 Replace the dump valve cover and canisters when the flow rate is correct to return the unit to normal use.

\*All PCGT series units, except Pre-Set Dispense models, are equipped with a valve calibration feature that dispenses water for 10 seconds, eliminating the need for manual timing. See the *Programming Guide* section.

**System Fault Messages**

An error message will appear on the screen in the event of a malfunction under the following conditions:

- 1 Water level overflow. This error indicates that either there is not enough incoming water flow/pressure or a water overflow condition (unit will stop functioning).
- 2 Break in temperature control circuit.
- 3 Break in control board communication circuit.

If any of the errors below appear on the screen, turn off the main power toggle switch and call for service.

ERROR MESSAGE	WARNING DESCRIPTION	CAUSE
Water Level Error 1-(800)-000-0000	Fill run error/Overflow	The water inlet valve has either been open for more than 10 minutes on the initial tank fill or has been open for more than 1 1/2 minutes in normal operation.
Sensor Error 1-(800)-000-0000	Open Probe	Break in the temperature thermistor circuit.
Communication Error	Communication error between the UCM and the universal power module	Break in the communication wires between the two control boards.

Wilbur Curtis Co., Inc. certifies that its products are free from defects in material and workmanship under normal use. The following limited warranties and conditions apply:

- 3 years, parts and labor, from original date of purchase on digital control boards
- 2 years, parts, from original date of purchase on all other electrical components, fittings and tubing
- 1 year, labor, from original date of purchase on all other electrical components, fittings and tubing

Additionally, Wilbur Curtis Co., Inc. warrants its grinding burrs for four (4) years from the date of purchase. Stainless steel components are warranted for two (2) years from the date of purchase against leaking or pitting. Replacement parts are warranted for ninety (90) days from the date of purchase or for the remainder of the limited warranty period of the equipment in which the component is installed.

All in-warranty service calls must have prior authorization. For authorization, call the Technical Support Department at 800-995-0417. Additional conditions may apply. Go to [www.wilburcurtis.com](http://www.wilburcurtis.com) to view the full product warranty information.

## CONDITIONS & EXCEPTIONS

The warranty covers original equipment at time of purchase only. Wilbur Curtis Co., Inc., assumes no responsibility for substitute replacement parts installed on Curtis equipment that have not been purchased from Wilbur Curtis Co., Inc. Wilbur Curtis Co., Inc. will not accept any responsibility if the following conditions are not met. The warranty does not cover:

- **Adjustments and cleaning:** *The resetting of safety thermostats and circuit breakers, programming and temperature adjustments are the responsibility of the equipment owner. The owner is responsible for proper cleaning and regular maintenance of this equipment.*
- **Replacement of items subject to normal use and wear:** *This shall include, but is not limited to, spray heads, faucets, light bulbs, shear disks, "O" rings, gaskets, silicone tubing, silicone elbows, canister assemblies, whipper chambers and plates, mixing bowls, agitation assemblies and whipper propellers.*

The warranty is void under the following circumstances:

- **Improper operation of equipment:** *The equipment must be used for its designed and intended purpose and function.*
- **Improper installation of equipment:** *This equipment must be installed by a professional technician and must comply with all local electrical, mechanical and plumbing codes.*
- **Improper voltage:** *Equipment must be installed at the voltage stated on the serial plate supplied with this equipment.*
- **Improper water supply:** *This includes, but is not limited to, excessive or low water pressure and inadequate or fluctuating water flow rate.*
- **Damaged in transit:** *Equipment damaged in transit is the responsibility of the freight company and a claim should be made with the carrier.*
- **Abuse or neglect (including failure to periodically clean or remove lime accumulations):** *The manufacturer is not responsible for variation in equipment operation due to excessive lime or local water conditions. The equipment must be maintained according to the manufacturer's recommendations.*
- **Unauthorized repair or modification:** *This equipment must be serviced only by qualified service technicians, using factory specified parts to factory specifications.*
- **Modified/Missing Serial Tag:** *The serial number label (tag) must not be defaced or removed.*

**Repairs and/or Replacements** are subject to Curtis' decision that the workmanship or parts were faulty and the defects showed up under normal use. All labor shall be performed during regular working hours. Overtime charges are the responsibility of the owner. Charges incurred by delays, waiting time, or operating restrictions that hinder the service technician's ability to perform service is the responsibility of the owner of the equipment. This includes institutional and correctional facilities. Wilbur Curtis Co., Inc. will allow up to 100 miles, round trip, per in-warranty service call.

**Return Merchandise Authorization (RMA):** All claims under this warranty must be submitted to the Wilbur Curtis Technical Support Department prior to performing any repair work or return of this equipment to the factory. **All returned equipment must be properly re-packaged in the original carton and received by Curtis within 45 days following the issuance of a RMA.** No units will be accepted if they are damaged in transit due to improper packaging. **NO UNITS OR PARTS WILL BE ACCEPTED WITHOUT A RETURN MERCHANDISE AUTHORIZATION (RMA). THE RMA NUMBER MUST BE MARKED ON THE CARTON OR SHIPPING LABEL. All warranty claims must be submitted within 60 days of service. Invoices will not be processed or accepted without a RMA number. Any defective parts must be returned in order for warranty invoices to be processed and approved.** All in-warranty service calls must be performed by an authorized service agent. Call the Wilbur Curtis Technical Support Department to find an agent near you.