G4 Seraphim®
Digital Coffee Brewing System
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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

- Standard Seraphim® package includes two Seraphs (brew heads), one Curtis 5.0 gallon hot water tower, G4 touchscreen and a drip tray assembly.
- Brewing methods – Chemex, Kalita, V60, Bee Dripper, Able Kone Brewing System, French Press and more.
- Temperature stability and flow rate; reliable, highly stable temperature and flow rate. Just set it and forget it.
- No cavitation – stable environment eliminates low pressure pockets.

Specifications (Selected Models)

Electrical Supply Requirements

<table>
<thead>
<tr>
<th>MODEL #</th>
<th>DESCRIPTION</th>
<th>PHASE</th>
<th>VOLTS</th>
<th>AMPS</th>
<th>HEATING CONFIG</th>
<th>WIRE</th>
<th>WATTS</th>
<th>HERTZ</th>
<th>CAPACITY</th>
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<tbody>
<tr>
<td>SERA2B</td>
<td>Twin Seraphim Single Cup Brewer,</td>
<td>1 PH</td>
<td>120/220 V</td>
<td>12.5/22.7 A</td>
<td>2 X 2500 W</td>
<td>2W/3W + G</td>
<td>1500/5000 W</td>
<td>50/60 Hz</td>
<td>4.3/10.0 gal./hr. [16.3/37.9 L/hr.]</td>
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<tr>
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<td>SERA2B30</td>
<td>Twin Seraphim Single Cup Brewer,</td>
<td>1 PH</td>
<td>230 V</td>
<td>23.9 A</td>
<td>2 X 2500 W</td>
<td>2W + G</td>
<td>5500 W</td>
<td>50/60 Hz</td>
<td>5.0 gal./hr. [18.9 L/hr.]</td>
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<tr>
<td>SERA2W30</td>
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<tr>
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<td>1 PH</td>
<td>230 V</td>
<td>13.8 A</td>
<td>2 X 1700 W</td>
<td>2W + G</td>
<td>3177 W</td>
<td>50/60 Hz</td>
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<tr>
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Dimensions

<table>
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<tr>
<th>MODEL #</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
<th>SHIP WEIGHT</th>
<th>SHIP CUBE</th>
<th>WATER CONNECTOR</th>
<th>WATER PRESSURE</th>
<th>MIN. FLOW RATE</th>
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<tbody>
<tr>
<td>SERA2B</td>
<td>24.49” [62.2 cm]</td>
<td>11.07” [28.1 cm]</td>
<td>22.25” [56.5 cm]</td>
<td>76.0 lb. [34.5 kg]</td>
<td>6.53 cu. ft. [0.18 m³]</td>
<td>1/4” flare</td>
<td>20 - 90 psi [138 - 620 kPa]</td>
<td>2.0 gpm [7.6 Lpm]</td>
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<tr>
<td>SERA2W</td>
<td>16.08” [40.8 cm]</td>
<td>7.06” [17.9 cm]</td>
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<td>2.34 cu. ft. [0.07 m³]</td>
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<td>3.98” [10.1 cm]</td>
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<td>0.35 cu. ft. [0.01 m³]</td>
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<tr>
<td>SERA2W34</td>
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</tbody>
</table>

Water Supply Requirements

- Brew Temperature = 200°F (92°C)
- Minimum Brew Temperature = 185°F (85°C)
- Energy Save Mode = Off
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.

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.
**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.

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**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.

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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

WARNING: Make sure that power to the water tower remains disconnected until installation is complete. If the water tower will be connected to a junction box, turned off power at the circuit breaker panel and lock out and tag the circuit breaker.

Connect the Power Cord to the Brewer (Brewers With a Strain Relief Mounted to the Back)

1 Place the water tower on a sturdy surface. Remove the top and side covers.

2 If the brewer will be operating using 120 Vac, locate the jumper on the terminal block inside the water tower and remove the cap, then connect the end of the jumper wire to the L2 terminal on the terminal block.

3 Loosen the strain relief on the back of the brewer.

4 Feed the end of the power cord into the strain relief.

5 Connect the wires on the power cable to the terminal block inside the brewer.

6 Tighten the strain relief. Leave the covers off until all the water tower connections are made, later in the installation process.

Prepare the Countertop

7 Holes must be cut into the counter top prior to installing the brewer. The hole pattern is critical for proper operation. See Figure 3 on the following page. The two brew heads must fit within a 2 foot by 3 foot area.

Packed with the unit is a full-size template (Part # WC-390245). Use the template for cutting the required holes needed for installing the brew heads, touchscreen and drip tray. The two largest circular holes are for the brew head assemblies, along with three stud holes for the mounting plate for each head. Also, there is a circular hole for the touch screen, along with the two mounting holes. The drip tray can be inset into the counter or mounted flush. Inset installation is recommended. The rectangular hole shown in Figure 3 is for inset installation. If the drip tray will be mounted flush, a circular hole is drilled in the location shown for the drain instead of a rectangular hole.

Consideration must be made for the drip tray drain system. The drip tray comes with a 1/2” NPT X 3” nipple and a 1/2” NPT barbed elbow. Either may be used to connect the drain system (supplied by the purchaser) to the bottom of the drip tray. See Figure 4 for dimensions.
Figure 3 - Hole Pattern Template for Cutting and Drilling Countertop (Drawing Not to Scale)

Figure 4 - Drip Tray Dimensions
Install the Brew Heads

Install the brew head assemblies into the countertop in the correct position. One brew head is designed to be installed on the right side and the other on the left. The installation position for each brew head is marked on the attached wires and tubes. Each brew head has three 1/4–20 studs with matching nuts and washers for mounting onto the surface of the counter.

CAUTION: Do not open the brew head units! The length of the wires and tubing are fixed and set at the factory. Do not splice or extend the tubes that come from beneath the brew head assembly. Ample tube length is provided and the tubes will need to be shortened in most cases for proper installation.

10 Hold a brew head over the group of holes that matches the markings on the brew head tubing/wiring (right or left).

11 Insert the tubes and wires into the large center hole and insert the studs through the three smaller holes, while pushing the unit down onto the counter top.

12 Secure using one (1) fender washer, one (1) lock washer and one (1) nut per threaded stud. Repeat for the other brew head.

Figure 5 - Drip Tray Installation

Install the Drip Tray

8 After preparing the drip tray location, according to Step 1, apply Teflon plumbing tape to the threads of the supplied pipe nipple (or barbed elbow)* and thread into the bottom of the drip tray. Assemble the drip tray pieces as shown and place them into position.

*The elbow may only be used on drip tray installations that are open wide enough on the bottom to allow access to the barb connection.

9 Install the drain system. Be sure to allow room under the countertop for the water tower.

Figure 6 - Brew Head Installation
**Install the UCM Assembly**

15 Locate the wiring harness and UCM plugs coming from behind the water tower. Push the plugs up through the touchscreen cutout in the countertop and plug them into the receptacles in back of the UCM. These will snap and lock into place.

16 Install the UCM and holder onto the countertop. Slip the two 1/4–20 threaded studs into the countertop and fasten the holder to the counter using one (1) fender washer, one (1) lock washer and one (1) nut per threaded stud.

**Install the Water Tower**

17 Remove the screws from the cable support plates, attached to the control cables coming from the brew heads. Insert the cable support plates into the slots on the back of the chassis. Run the cables through the holes. The cables for the right and left brew heads route through the two cable ports on the right. The left port is for the UCM controller cable.

continued...
Install the Water Tower (cont.)

18 Use the screws to attach the plates to the chassis as shown.

19 Connect the brew head cables to the connectors inside the chassis. The connectors are labeled right and left to indicate the correct cable connection.

20 Replace the water tower top cover and side cover.

Level the Water Tower

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

21 Center the water tower between the two brew heads under the countertop. Refer to the hole pattern drawing (Figure 3) for the proper location. Level it left to right and front to back by turning the bottom of the legs.

Connect the Brew Head Water Return and Supply Lines

**WARNING:** The water return lines must not sag. Route them in a downhill orientation between the bottom of the brew head assemblies and the back of the water tower (see Figure 13). The tubing can be shortened if necessary to make sure that the lines are free of sag that will trap water inside them between the brew heads and the water tower.

22 Link the brew heads to the water tower by attaching the water return lines. These are the two larger diameter flexible silicone tubes that come from behind the water tower. The matching return lines from the spray head assemblies will have a straight fitting slipped into the end of the tube. Join the return line tubes together using this fitting. Make sure they are correctly oriented as shown in Figures 12 and 13.

23 Locate the two (2) 1/4 inch diameter water supply lines behind the water tower. Shorten them to minimize length when connected with the matching 1/4 inch tubing coming from the bottom of the brew head assemblies.

24 Insert the water supply tubes from the back of the water tower into the barbed connector on the supply line tube fittings from the brew head assemblies. See Figure 12.
Install the Exhaust Lines

⚠️ NOTICE: The exhaust line tubing must be installed so that ends do not become submerged in water to avoid backup.

25 The water tower is equipped with two outlet fittings that vent steam and condensation from the water tank inside the chassis. Run the provided exhaust line tubing from these fittings to a drain to drain off condensation.

Connect the Water Supply

26 Flush the water supply line prior to installation to purge air and debris from the water filter and tubing.

27 Connect the water supply line to the flare fitting on the back of the brewer. Leave the water supply valve closed until the power is connected.

Install the Hold Down Brackets

The water tower must be secured to the bottom of the cabinet using the hold down brackets affixed to the bottom edges of the chassis.

⚠️ WARNING: Failure to install the hold down brackets may cause the unit to tip over, especially when installed in a mobile coffee counter. Injury might result from spilled hot liquids or damage may occur to the water tower itself.

28 Fasten the water tower brackets onto the floor. There is one on the front and one on the side. If the brewer is installed in a different location later, these brackets must also be moved and installed with the water tower.
Connect the Power Cord

29 For brewers with a power connector mounted to the back, connect a compatible IEC power cord (not supplied) having a power plug that matches the electrical outlet installed in the facility, and that meets specifications.

30 For brewers that will be connected to a junction box, connect the power cable wires to the terminals inside the junction box.

31 On brewers equipped with a power plug, connect the power plug to the appropriate type of electrical outlet. See the ELECTRICAL SCHEMATIC for the power supply requirements.

WARNING: If the electrical outlet is not compatible with the power plug, have it upgraded by a licensed electrician. Do not modify the power plug. Do not use an extension cord. Do not use a power cord/plug that is damaged.

Power Up the Brewer

32 Turn on the water supply valve.

33 Make sure that the circuit breaker supplying power to the circuit is on.

34 Turn the toggle switch on the back of the water tower to the ON position. The water tank will start to fill. While the tank is filling, inspect the water supply line for leaks.

continued...
**Power Up the Brewer (cont.)**

35 When the water in the tank rises to the correct level, the heating elements will turn on automatically. Depending on the incoming water temperature and the electrical specifications, the water tank typically requires 45 minutes to reach the factory set operating temperature. When the water has heated, “Ready to brew” will appear on the LCD screen.

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**IMPORTANT:** When operating the brewer at higher elevations, reduce the factory set operating temperature by 2°F (1°C) for each 1000 feet (300 m) of elevation above 4000 feet (1200 m). See *PROGRAMMING GUIDE*.

36 Perform a brew cycle of a least 12 oz. (350 ml) to purge any remaining air from the system. See *OPERATING INSTRUCTIONS*. During the initial brew cycle and whenever the filter is replaced, you may hear the sounds of air being purged from the filter, tubing and water tank.

**Installing the Optional Brew Basket Holder**

37 Make sure the toggle switch on the back of the water tower is in the OFF position.

38 Thread the shaft of the brew basket holder into the hole (located toward the back) on the underside of one of the brew heads. Hand tighten into place.
Brewing Instructions - Single Cup

**WARNING** - TO AVOID SCALDING, AVOID SPLASHING. Keep body parts clear of the brewer during brewing. Do not remove the brew basket while “Brewing” appears on the display.

The G4 Seraphim Brewer is factory preset for optimal performance.

1. The brewer should be ON. Confirm this at the toggle switch on the back of the water tower. “Ready to brew” should be on the display.

2. Insert a clean paper filter into the brew basket. Fill with the proper amount of coffee. Level the coffee in the filter.

3. Slide the filled brew basket into the brew rails on the brew head. Slide it all the way back until it stops.

4. Center an empty coffee container beneath the brew head.

5. Hold your finger on the Brew Basket icon. As soon as you hear the click of the brew valve, lift your finger. Brewing will begin.

6. If a keypad appears on the display, the brew code feature is enabled (default is off). **Brewing will start immediately after you enter the brew code.** See the **PROGRAMMING GUIDE** to set up/disable the brew code.

The brewer will brew coffee based on the settings programmed into the universal control module (UCM). To change the settings, see the **PROGRAMMING GUIDE** section. During the brew cycle, an on screen brew timer will count down the time remaining.
Brewing Instructions - Drippers

**WARNING - TO AVOID SCALDING, AVOID SPLASHING.** Keep body parts clear of the brewer during brewing. Do not remove the brew basket while “Brewing” appears on the display.

The G4 Seraphim Brewer is factory preset for optimal performance.

1. The brewer should be ON. Confirm this at the toggle switch on the back of the water tower. "Ready to brew" should be on the display.

2. Insert a clean paper filter into the dripper.

3. Fill the dripper with the proper amount of coffee. Level the coffee in the filter.

4. Remove the brew basket and center the dripper beneath the brew head. Use the brew basket ring for two piece drippers.*

5. Hold your finger on the appropriate brew icon. As soon as you hear the click of the brew valve, lift your finger. Brewing will begin.

6. If a keypad appears on the display, the brew code feature is enabled (default is off). **Brewing will start immediately after you enter the brew code.** See the **PROGRAMMING GUIDE** to set up/disable the brew code.

The brewer will brew coffee based on the settings programmed into the universal control module (UCM). To change the settings, see the **PROGRAMMING GUIDE** section. During the brew cycle, an on screen brew timer will count down the time remaining.

* See **INSTALLATION INSTRUCTIONS** for brew basket ring installation instructions.
WARNING: HOT SURFACES - To avoid injury, allow the brewer and dispenser(s) to cool before cleaning.

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.

Cleaning The Brewer - Daily

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

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

1. Remove the dispenser(s). Wipe exterior brewer surfaces with a damp cloth to remove spills and debris.

2. Remove the brew basket(s) and clean them in a mild detergent solution. Use a soft bristled brush for hard to clean areas. Rinse with clean water, then dry.

3. Wipe the spray head area with a cloth soaked in a mild detergent solution. Rinse with a cloth soaked with clean water removing any residual detergent. Use a clean, soft cloth to dry.

4. Dump out the drip tray(s) (if applicable). Rinse with clean water, then dry with a soft, clean cloth.

Cleaning The Brewer - Weekly

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

1. Remove the spray head(s), unscrewing counterclockwise from the dome plate.

2. Thoroughly clean and rinse the dome plate area.

3. Clean the brew basket rails with a brush soaked with a mild detergent solution. Rinse the area with a cloth soaked with clean water, removing any residual detergent.

4. Dry the area with a soft, clean cloth.

5. Reattach the spray head(s).
Cleaning Single Cup Brew Baskets

Clean the dispensing spout of the brew basket once a month or more often in locations where the brewer gets heavy use.

1. Look into the brew basket to locate the cap covering the spout tube. Remove this cap by grasping the top portion and pulling it straight up.

2. Clean the inside orifice of the spout tube. For better cleaning, you can mix a mild dish washing solution to use while cleaning. Insert a small brush through the spout tube from the outside of the brew basket. Spin the brush a few times to remove any coffee residue. Look inside the brew basket and verify that the brush has gone completely through the spout.

3. Clean the small opening on the side of the spout tube. Insert the brush into the side opening and spin it a few times. Run the brush completely through the side opening.

4. Rinse the brew basket with clear water. Observe the flow of water from the dispensing spout to make sure you have a good flow. Replace the cap on top of the spout tube. Push down on the cap until it snaps into place.
**Touchscreen Control Module Overview**

The touchscreen turns on whenever the rear toggle switch is on. The symbol buttons on the screen control operation and programming. Pressing the on-screen symbols and buttons with your finger tip activates the various functions. The default screen, as well as additional control buttons are shown below.

There are two methods for changing the default settings on G4 brewers. The settings can be programmed manually using the brewer touch screen (see below), or automatically using the USB (Universal Serial Bus) data port on the side of the brewer (see *Automatic Programming - USB*).

**Manual Programming Mode**

1. Tap the (white) Curtis logo on the touchscreen five (5) times to enter programming mode.

2. The ACCESS CODE screen will appear. The default pass code is 1 2 3 4. Once the code is entered, press OK. The MAIN MENU screen will appear. The access code can be reset in the Control Settings sub-menu, under Passwords.

3. The MAIN MENU screen contains a series of sub-menu icons. The icons vary based on the model selected under the Model Select sub-menu. For the brewer to operate properly, the model selected must match the model series on the brewer model number label affixed to the outside of the machine.
Manual Programming Mode (cont.)

Shown below and on the following pages are the sub-menus available for the programming MAIN MENU. The icons and programming options that appear vary based on the brewer model selected under Model Select.

Recipes Menu

Enter the Custom Recipe sub-menu. Below and on the following pages are the current default recipe settings as of the date of printing.

### Recipe Defaults - Chemex - Purple Spray Head - 24 oz. (Large)

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<th>1</th>
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<th>3</th>
<th>4</th>
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<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>On</td>
<td>8</td>
<td>13</td>
<td>8</td>
<td>5</td>
<td>5</td>
<td>5</td>
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<td>13</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1:00</td>
</tr>
<tr>
<td>oz.</td>
<td>3.20</td>
<td>5.20</td>
<td>3.20</td>
<td>2.00</td>
<td>2.00</td>
<td>2.00</td>
<td>1.20</td>
<td>5.20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>24.0</td>
</tr>
<tr>
<td>Off</td>
<td>30</td>
<td>10</td>
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<td>10</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1:50</td>
</tr>
</tbody>
</table>

Total Brew Time: 3:50
Drip Out: 1:00

### Recipe Defaults - Chemex - Purple Spray Head - 14 oz. (Small)

<table>
<thead>
<tr>
<th>Pulse</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
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<tr>
<td>On</td>
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<td>2</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0:35</td>
</tr>
<tr>
<td>oz.</td>
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<td>3.20</td>
<td>2.00</td>
<td>1.20</td>
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<td>0.80</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>14.0</td>
</tr>
<tr>
<td>Off</td>
<td>30</td>
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<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1:50</td>
</tr>
</tbody>
</table>

Total Brew Time: 3:25
Drip Out: 1:00

### Recipe Defaults - V60 - Gray Spray Head - 14 oz. (Large)

<table>
<thead>
<tr>
<th>Pulse</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
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<th>9</th>
<th>10</th>
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<tr>
<td>On</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0:38</td>
</tr>
<tr>
<td>oz.</td>
<td>2.20</td>
<td>2.96</td>
<td>1.85</td>
<td>1.85</td>
<td>1.11</td>
<td>1.11</td>
<td>2.96</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>14.1</td>
</tr>
<tr>
<td>Off</td>
<td>30</td>
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<td>20</td>
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<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1:40</td>
</tr>
</tbody>
</table>

Total Brew Time: 3:18
Drip Out: 1:00

continued...
Recipes Menu (cont.)

### Recipe Defaults - V60 - Gray Spray Head - 12 oz. (Small)

<table>
<thead>
<tr>
<th>Pulse</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
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<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>On</td>
<td>6</td>
<td>8</td>
<td>5</td>
<td>5</td>
<td>3</td>
<td>3</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0.32</td>
</tr>
<tr>
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<td>2.96</td>
<td>1.85</td>
<td>1.85</td>
<td>1.11</td>
<td>1.11</td>
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<td>0.74</td>
<td>0.74</td>
<td>0.74</td>
<td>0.74</td>
<td>0.74</td>
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<td>20</td>
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<td>10</td>
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<td>0</td>
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<td>0</td>
<td>0</td>
<td>1.40</td>
</tr>
</tbody>
</table>

**Total Brew Time:** 3:12  
**Drip Out:** 1:00

### Recipe Defaults - Kalita - Gray Spray Head - 24 oz. (Large)

<table>
<thead>
<tr>
<th>Pulse</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
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<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>On</td>
<td>6</td>
<td>13</td>
<td>8</td>
<td>8</td>
<td>5</td>
<td>5</td>
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<td>0</td>
<td>0</td>
<td>1:05</td>
</tr>
<tr>
<td>oz.</td>
<td>2.22</td>
<td>4.81</td>
<td>2.96</td>
<td>2.96</td>
<td>1.85</td>
<td>1.85</td>
<td>2.59</td>
<td>4.81</td>
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<td>0</td>
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<td>0</td>
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<td>0</td>
<td>0</td>
<td>1:50</td>
</tr>
</tbody>
</table>

**Total Brew Time:** 3:55  
**Drip Out:** 1:00

### Recipe Defaults - Kalita - Gray Spray Head - 14 oz. (Small)

<table>
<thead>
<tr>
<th>Pulse</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
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<th>9</th>
<th>10</th>
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<th>12</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>On</td>
<td>6</td>
<td>13</td>
<td>8</td>
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<td>3</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.38</td>
</tr>
<tr>
<td>oz.</td>
<td>2.22</td>
<td>4.81</td>
<td>2.96</td>
<td>1.85</td>
<td>1.11</td>
<td>1.11</td>
<td>0.74</td>
<td>0.74</td>
<td>0.74</td>
<td>0.74</td>
<td>0.74</td>
<td>0.74</td>
<td>14.1</td>
</tr>
<tr>
<td>Off</td>
<td>30</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>0</td>
<td>20</td>
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<td>0</td>
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<td>0</td>
<td>1:50</td>
</tr>
</tbody>
</table>

**Total Brew Time:** 3:28  
**Drip Out:** 1:00

### Recipe Defaults - Brew Basket - Purple Spray Head - 24 oz. (Large)

<table>
<thead>
<tr>
<th>Pulse</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
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<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>On</td>
<td>8</td>
<td>13</td>
<td>8</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>3</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1:00</td>
</tr>
<tr>
<td>oz.</td>
<td>3.20</td>
<td>5.20</td>
<td>3.20</td>
<td>2.00</td>
<td>2.00</td>
<td>2.00</td>
<td>1.20</td>
<td>5.20</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>24.0</td>
</tr>
<tr>
<td>Off</td>
<td>30</td>
<td>10</td>
<td>20</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1:50</td>
</tr>
</tbody>
</table>

**Total Brew Time:** 3:50  
**Drip Out:** 1:00

### Recipe Defaults - Brew Basket - Purple Spray Head - 14 oz. (Small)

<table>
<thead>
<tr>
<th>Pulse</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>On</td>
<td>6</td>
<td>8</td>
<td>5</td>
<td>3</td>
<td>3</td>
<td>2</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.35</td>
</tr>
<tr>
<td>oz.</td>
<td>2.40</td>
<td>3.20</td>
<td>2.00</td>
<td>1.20</td>
<td>1.20</td>
<td>0.80</td>
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<td>0.80</td>
<td>0.80</td>
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<td>0.80</td>
<td>14.0</td>
</tr>
<tr>
<td>Off</td>
<td>30</td>
<td>10</td>
<td>20</td>
<td>20</td>
<td>20</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1:50</td>
</tr>
</tbody>
</table>

**Total Brew Time:** 3:25  
**Drip Out:** 1:00
Control Settings Menu

Temperature - sets the brewing temperature of the water held in the water tank. The factory default setting is 200°F/92°C. The setting range is 160°F to 206°F (71°C to 97°C).

Filter Pre-Wet Time - streams hot water over the paper filter to eliminate undesirable paper taste prior to brewing. The factory default is Disabled. The setting range is 4 to 20 seconds.

Energy Save Mode - saves energy during periods of non-use. The factory default setting is No Change (energy save off). The setting options are No Change, turn off the heating element after four hours of non-use or reduce the heating element temperature to 140°F (60°C) after four hours of non-use.

Sounds - turns the beeper heard each time a button is pressed, on or off. The factory default setting is On.

Diagnostics - runs the system auto-test. See the Troubleshooting Guide for more details.

Display Settings

- Brew Timer - turns the brew timer on the display on and off. The factory default setting is Show.
- Brew Volume - “Show” displays Oz. or mL. “Hide” displays SM, MD and LG. The factory default setting is Show. Units set to 1 Batch display “Brew”.
- Screen saver - turns the display screen saver on and off. The factory default setting is Off.
- Display Name - changes the company name on the display. The factory default setting is blank.
- Brew button icon - selects the icons used on the display. The factory default setting is “original”.

Preventive Maintenance

- Maintenance Interval - turns on/off and adjusts the preventive maintenance brew monitor. The factory default setting is Disabled. When Enabled, the UCM measures the number of gallons brewed before the maintenance reminder is displayed. The setting range is 25 to 3,000 gallons (95 to 11,350 liters).
- Service Telephone Number - sets the service phone number that appears on the display when the UCM detects an error condition. The factory default is 1-800-000-0000.

Brew Counter - When accessed, this feature displays the total number of brew cycles and the resettable brew cycle counter (number of brew cycles since last reset).

Passwords

- Programming Password - changes the programming menu password. Always active. The factory default is 1234.
- Brew Password - turns the brew access password feature on and off and is used to create the brew password. This feature prevents brewing by unauthorized persons. The factory default setting is Disabled. When Enabled, an access code keypad appears on the screen when the brew button is pressed. The correct access code must be entered before brewing will proceed.
- USB Password - turns the USB screen access password on and off and is used to create the USB access password. This feature prevents access by unauthorized persons to the USB programming screens. The factory default setting is Disabled. When Enabled, an access code keypad appears on the screen when the user attempts to access the USB menus.

Master Reset - resets the brewer universal control module (UCM) to the factory default settings.

Regional Settings

- SI/US - switches the brewer unit settings between US and metric. The factory default setting is US.
- Language - changes the language that appears on the display. The factory default setting is English.
Brew Settings Menu

When you first enter the Brew Settings programming menu, you will be asked to select (press) a BREW button to change the settings for. To program more than one BREW button, finish programming the first, then reenter the Brew Settings menu to program the second.

**Pulse Brew** - selects the pulse brew pattern. The factory default setting is E. The pulse brew pattern selected "tunes" or changes the flavor of the coffee. If energy saver mode is on, after pressing the brew button, the brew cycle will start when the water in the tank reaches brewing temperature.

**Pulse Brew Guidelines**

- Filter pack type coffees typically extract better with the A and B pulse setting.
- Decaffeinated coffees typically extract better with the B pulse setting.
- High-yield coffees typically extract better with the C pulse setting. Of course, any of the A, B or C settings may be used to suit your taste profile.
- Settings D and E are manual pulse counts.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Toward the beginning of brew cycle: 4 cycles of 10 seconds on and 10 seconds off, then on until end of brew cycle.</td>
</tr>
<tr>
<td>B</td>
<td>Starts towards ends of brew cycle. 4 cycles of 10 seconds off and 4 cycles of 10 seconds on. Ends when brew cycle ends.</td>
</tr>
<tr>
<td>C</td>
<td>Starts at beginning of brew cycle. 5 cycles of 25 seconds on and 20 seconds off, then on until end of brew cycle.</td>
</tr>
<tr>
<td>D</td>
<td>Manually set. Starts at beginning of brew cycle. Number of pulses is adjustable from 1 to 20. Pulse on time and off time are both adjustable from 5 to 150 seconds.</td>
</tr>
<tr>
<td>E</td>
<td>Manually set.* Starts at beginning of brew cycle. Number of pulses is adjustable from 1 to 8. Pulse on time and off time are both adjustable from 1 to 150 seconds.</td>
</tr>
</tbody>
</table>

*See Recipe Settings, earlier in this section, for the various default manual settings for Seraphim series brewers.

**Drip-out Mode** - sets the drip-out mode timer. After water stops flowing, it allows additional time for the coffee to drain before the brew basket lock releases. This feature reduces the chance that the brew basket will be removed too early. The setting range is 0 seconds to 15 minutes. See Recipe Settings, earlier in this section, for the default settings for Seraphim series brewers.
Automatic Programming - USB

Using the USB connection and a flash drive easily reprograms the settings by simply copying data.

A flash drive can copy all of the settings from one identical G4 brewer to another. Doing so eliminates the need to program each step individually using the touchscreen. This process also makes it easy to quickly standardize the program settings on multiple G4 brewers.

Use a flash drive that supports USB 2.0 or above and has a type-A USB connection. The storage capacity must be 2 GB minimum.

**IMPORTANT:** The flash drive must be completely blank. Erase any existing files on the drive before starting the following process.

**Uploading the Software to the Flash Drive**

1. Make sure the brewer is on. Check to make sure that the brewer you are copying settings from is programmed as desired.

2. Open the cover on the USB port and insert the connector on the empty flash drive. The port is located on the right side panel of the brewer, near the top. The universal control module (UCM) will upload all of the setup data onto the flash drive. The yellow LED icon on the top left of the touchscreen will light indicating that data is transferring. This process will only take a second to complete.

**Downloading the Software to the Brewer from the Flash Drive**

1. Select the (identical) brewer you wish to make program changes to. The brewer must be on.

2. Plug the loaded flash drive into the USB port on the brewer. The data copied from the first brewer will automatically download, overwriting all the settings that were on the second brewer.

3. The red LED on the top left of the touchscreen will indicate that the download is in process. This will only take a second.

4. Once the download is complete, the UCM will reboot so that the changes take effect.

5. Remove the flash drive. The download is complete. The data on the flash drive can continue to be downloaded into as many identical brewers as needed.

**USB File Transfer**

This screen will be present whenever the USB flash drive is inserted, provided the brewer is not currently brewing.

The default action is “No Action”. The UCM will always create a backup on the flash drive before downloading settings/recipes or a screensaver.

If a firmware update is present on the flash drive, the firmware update procedure will be started before the screen is shown.
Seraphim - G4 Digital Brewing System

Countertop example

22.63 in [57.5 cm]
12.00 in [30.5 cm]
19.00 in [48.3 cm]

Cup clearance
5.63 in [14.3 cm]
0.50 in [1.3 cm]

Coffee flow center line
6.63 in [16.8 cm]
6.75 in [17.1 cm]

52.13 in [127.3 cm]
36.00 in [91.4 cm]
24.63 in [62.6 cm]
11.00 in [27.9 cm]
20.25 in [51.4 cm]
SERA2 - Main Chassis, Front - Parts List

<table>
<thead>
<tr>
<th>ITEM #</th>
<th>PART #</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>WC-61643</td>
<td>COVER, TOP SERAPHIM</td>
</tr>
<tr>
<td>2</td>
<td>WC-2948</td>
<td>FITTING, TANK OVERFLOW 304SST</td>
</tr>
<tr>
<td>3*</td>
<td>WC-8559</td>
<td>RELAY, SOLID STATE 280V/40A W/ HEATSINK AND QUICK DISCONNECTS</td>
</tr>
<tr>
<td>4A*</td>
<td>WC-847a,b</td>
<td>VALVE, INLET 2 GPM 120V 10W GEN USE BROWN BODY</td>
</tr>
<tr>
<td>4B</td>
<td>WC-883^</td>
<td>VALVE, INLET 2 GPM 240V 6W</td>
</tr>
<tr>
<td>5</td>
<td>WC-10008</td>
<td>UNIVERSAL HOST ADAPTER (USB-G4)</td>
</tr>
<tr>
<td>6</td>
<td>WC-1065</td>
<td>LED STRIP ASSY, 12Vdc x 1.2W 15 LEDs w/ CONNECTORS</td>
</tr>
<tr>
<td>7</td>
<td>WC-61536</td>
<td>BRACKET, SIDE</td>
</tr>
<tr>
<td>8A</td>
<td>WC-73133</td>
<td>PLATE, FRONT FACE SERAPHIM LOGO</td>
</tr>
<tr>
<td>8B</td>
<td>WC-73133K</td>
<td>KIT, ASSY FRONT FACE &amp; LED SERAPHIM</td>
</tr>
<tr>
<td>9</td>
<td>WC-3503</td>
<td>LEG, 3/8&quot;-16 STUD SCREW BUMPER</td>
</tr>
<tr>
<td>10*</td>
<td>WC-14045-101</td>
<td>CURRENT SENSOR ASSEMBLY G4</td>
</tr>
<tr>
<td>11*</td>
<td>WC-3518</td>
<td>LEG, GLIDE 3/8&quot;-16 STUD SCREW</td>
</tr>
</tbody>
</table>

*Recommended parts to stock

- SERA2Bx, SERA2Wx
- SERA2B30x, SERA2W30x
- SERA2B34x, SERA2W34x

<table>
<thead>
<tr>
<th>ITEM #</th>
<th>PART #</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>WC-61521</td>
<td>COVER, SIDE ACCESS</td>
</tr>
<tr>
<td>13^</td>
<td>WC-4320</td>
<td>O-RING, 1/4&quot; I.D.</td>
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<td>14</td>
<td>WC-4212</td>
<td>NUT, 5/8-18 JAM UNF SS</td>
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<tr>
<td>15A</td>
<td>WC-13521a</td>
<td>HARNESS, ASSY SERAPHIM</td>
</tr>
<tr>
<td>15B</td>
<td>WC-13521-101b</td>
<td>HARNESS, ASSY COMPLETE SERA30</td>
</tr>
<tr>
<td>15C</td>
<td>WC-13521-103c</td>
<td>HARNESS, ASSY COMPLETE SERA34</td>
</tr>
<tr>
<td>16A</td>
<td>WC-1250a</td>
<td>CORD, 4mm² 90°C 49A 450/750V 6 FT LG W/ FERRULES ONE END</td>
</tr>
<tr>
<td>16B</td>
<td>WC-1256c</td>
<td>CORD, 1.5mm² X 3 W/GB-2099 &amp; C19 CHINA</td>
</tr>
<tr>
<td>17</td>
<td>WC-314</td>
<td>POWER BLOCK, 5 STATION</td>
</tr>
<tr>
<td>18</td>
<td>WC-4518</td>
<td>SCREW, 10-24x3/8 PHIL PAN HD SS GEN USE</td>
</tr>
<tr>
<td>19</td>
<td>WC-4509</td>
<td>SCREW, 10-32x3/8 SLTD HEX WSHR PH/ HD U.L. GROUND</td>
</tr>
<tr>
<td>20</td>
<td>WC-4433</td>
<td>SCREW, 8-32x1 1/4 PH TRUSS HD ST./STL.</td>
</tr>
<tr>
<td>21</td>
<td>WC-4429</td>
<td>SCREW, 8-32x3/8 PH HEAD TRUSS</td>
</tr>
<tr>
<td>22</td>
<td>WC-4616</td>
<td>SCREW, 1/4-20 x 1/2 PHILLIPS PAN HEAD STAINLESS STEEL</td>
</tr>
</tbody>
</table>
### SERA2 - Main Chassis, Rear - Exploded View

**Water tank assembly:** see section IP28


### SERA2 - Main Chassis, Rear - Parts List

<table>
<thead>
<tr>
<th>ITEM #</th>
<th>PART #</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1A</td>
<td>WC-589-101a,b</td>
<td>TRANSFORMER, 120VAC-24V 4.8A W/ LEADS &amp; MOLEX CONNECTOR</td>
</tr>
<tr>
<td>1B</td>
<td>WC-589-102c</td>
<td>TRANSFORMER, 240VAC-24V 4.8VA W/ LEADS &amp; MOLEX CONNECTOR</td>
</tr>
<tr>
<td>2*</td>
<td>WC-10001</td>
<td>CONTROL MODULE, UPM 120/220V G4</td>
</tr>
<tr>
<td>3*</td>
<td>WC-1064</td>
<td>POWER SUPPLY, 100-240Vac X12Vdc W/ CONNECTORS</td>
</tr>
<tr>
<td>4*</td>
<td>WC-1066</td>
<td>FAN, CHASSIS W/CONNECTORS SERAPHIM</td>
</tr>
<tr>
<td>5*</td>
<td>WC-1040-101</td>
<td>PUMP, WATER DIRECT DRIVE 120V, 120V 60Hz TLP</td>
</tr>
<tr>
<td>6*</td>
<td>WC-5307</td>
<td>TUBE, 3/16 ID x 1/8W SILICONE</td>
</tr>
<tr>
<td>7</td>
<td>WC-14054</td>
<td>BUSHING, LOCKIT STRAIN RELIEF .220-.290 OD CABLE</td>
</tr>
<tr>
<td>8</td>
<td>WC-103</td>
<td>SWITCH, TOGGLE NON-LIT DPST 25A 125/250VAC RESISTIVE</td>
</tr>
<tr>
<td>9</td>
<td>WC-2401-P</td>
<td>ELBOW 3/8 NPT X 1/4 FLARE PLTD</td>
</tr>
<tr>
<td>10</td>
<td>WC-596Kb,c</td>
<td>KIT, NOISE FILTER EMI 250V/30A 1PH</td>
</tr>
<tr>
<td>11</td>
<td>WC-592b,c</td>
<td>TRANSFORMER, 230-115V 130VA SERA30</td>
</tr>
<tr>
<td>12*</td>
<td>WC-5310</td>
<td>TUBE, 5/16 ID x 1/8W SILICONE</td>
</tr>
<tr>
<td>13*</td>
<td>WC-5231</td>
<td>COMPOUND, HEAT SINK 5OZ</td>
</tr>
<tr>
<td>14</td>
<td>WC-1512b,c</td>
<td>BREAKER, CIRCUIT 2-POLE 5A/250VAC</td>
</tr>
<tr>
<td>15</td>
<td>WC-4514</td>
<td>SCREW, 8-32x3/8 PAN HEAD PH SS</td>
</tr>
<tr>
<td>16A</td>
<td>WC-1412a,b</td>
<td>CORD GRIP, 1&quot; O.D. THREAD, METAL</td>
</tr>
<tr>
<td>16B</td>
<td>WC-1522c</td>
<td>SOCKET, POWER INLET 16A/250V SNAP-IN (C20)</td>
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</table>

*Recommended parts to stock:

- SERA2Bx, SERA2Wx
- SERA2B30x, SERA2W30x
- SERA2B34x, SERA2W34x
SERA2 - Brew Head - Exploded View

SERA2 - Brew Head - Parts List

<table>
<thead>
<tr>
<th>ITEM #</th>
<th>PART #</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1A</td>
<td>WC-66099-BLK</td>
<td>HEAD, BREW ASSY SERAPHIM BLACK (HOUSING ONLY)</td>
</tr>
<tr>
<td>1B</td>
<td>WC-66099-WHT</td>
<td>HEAD, BREW ASSY SERAPHIM WHITE (HOUSING ONLY)</td>
</tr>
<tr>
<td>2A</td>
<td>SERA-BH-BLK120</td>
<td>BREW HEAD ASSY, BLACK 120V COMPLETE</td>
</tr>
<tr>
<td>2B</td>
<td>SERA-BH-WHT120</td>
<td>BREW HEAD ASSY, WHITE 120V COMPLETE</td>
</tr>
<tr>
<td>2C</td>
<td>SERA-BH-BLK240</td>
<td>BREW HEAD ASSY, BLACK 240V COMPLETE</td>
</tr>
<tr>
<td>2D</td>
<td>SERA-BH-WHT240</td>
<td>BREW HEAD ASSY, WHITE 240V COMPLETE</td>
</tr>
<tr>
<td>3*</td>
<td>WC-5310</td>
<td>TUBE, 5/16 ID x 1/8W SILICONE</td>
</tr>
<tr>
<td>4A*</td>
<td>WC-889-103A</td>
<td>VALVE, DUMP LEFT 120V 12W SERAPHIM</td>
</tr>
<tr>
<td>4B</td>
<td>WC-860-103A</td>
<td>VALVE, DUMP LEFT 240V 12W SERAPHIM</td>
</tr>
</tbody>
</table>

*Recommended parts to stock

- SERA2Bx
- SERA2Wx
- SERA234x
- SERA2330x
- SERA2W34x

SERA2, ILLUSTRATED PARTS/RECOMMENDED PARTS

040320D
SERA2 - Touch Screen and Drip Tray - Parts List

<table>
<thead>
<tr>
<th>ITEM #</th>
<th>PART #</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>1</td>
<td>WC-37580*</td>
<td>KIT, ASSY TOUCH SCREEN &amp; BACKING PLATE SERAPHIM</td>
</tr>
<tr>
<td>2A</td>
<td>WC-66095-BLK</td>
<td>HOLDER, UCM SERAPHIM BLACK</td>
</tr>
<tr>
<td>2B</td>
<td>WC-66095-WHT</td>
<td>HOLDER, UCM SERAPHIM WHITE</td>
</tr>
<tr>
<td>3A</td>
<td>SERA-UH-BLK</td>
<td>HOLDER, UCM BLACK SERAPHIM</td>
</tr>
<tr>
<td>3B</td>
<td>SERA-UH-WHT</td>
<td>HOLDER, UCM WHITE SERAPHIM</td>
</tr>
<tr>
<td>4</td>
<td>WC-65034</td>
<td>SCREEN, DRIP TRAY SERAPHIM</td>
</tr>
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</table>

*Recommended parts to stock

<table>
<thead>
<tr>
<th>ITEM #</th>
<th>PART #</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>4</td>
<td>WC-65034</td>
<td>SCREEN, DRIP TRAY SERAPHIM</td>
</tr>
<tr>
<td>5</td>
<td>WC-65035</td>
<td>DRIP TRAY ASSY SERAPHIM</td>
</tr>
<tr>
<td>6</td>
<td>WC-65041</td>
<td>DRIP TRAY ASSY, COMPLETE</td>
</tr>
<tr>
<td>7</td>
<td>WC-2461</td>
<td>ELBOW, 1/2 NPT MALE BARBED NYLON</td>
</tr>
<tr>
<td>8</td>
<td>WC-65035</td>
<td>DRIP TRAY ASSY SERAPHIM</td>
</tr>
<tr>
<td>9</td>
<td>WC-29111</td>
<td>FITTING, NIPPLE 1/2&quot; NPT X 3&quot; LG. PVC</td>
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*Recommended parts to stock
Parts List

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<thead>
<tr>
<th>ITEM #</th>
<th>PART #</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>1</td>
<td>WC-53162</td>
<td>TUBE, RETURN ASSEMBLY SERA</td>
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<tr>
<td>2</td>
<td>WC-37008</td>
<td>KIT, TANK LID ROUND</td>
</tr>
<tr>
<td>3</td>
<td>WC-43067</td>
<td>O-RING, 4-1/2&quot; I.D. X Ø.285 SILICONE TANK LID</td>
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<tr>
<td>4A</td>
<td>WC-5528K</td>
<td>KIT, WATER LEVEL PROBE, SILICONE</td>
</tr>
<tr>
<td>4B</td>
<td>WC-5502-01</td>
<td>KIT, PROBE, ASSY WATER LEVEL W/HEX FITTING, O-RING &amp; NUT</td>
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<tr>
<td>5A</td>
<td>WC-62107</td>
<td>TANK, COMPLETE 5000W SERAPHIM</td>
</tr>
<tr>
<td>5B</td>
<td>WC-54345-34</td>
<td>TANK, ASSY SERA34</td>
</tr>
<tr>
<td>6</td>
<td>WC-2221</td>
<td>REDUCER, 3/16&quot; TO 5/16&quot; BARBED Y-CONNECTOR</td>
</tr>
<tr>
<td>7</td>
<td>WC-2628*</td>
<td>BUSHING, CONICAL 469 ID X .945 OD X .986 LG 8mm GEN USE</td>
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<table>
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<tr>
<th>ITEM #</th>
<th>PART #</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>WC-5310</td>
<td>TUBE, 5/16 ID x 1/8 W SILICONE</td>
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<tr>
<td>9</td>
<td>WC-37365</td>
<td>KIT, FITTING TANK INLET</td>
</tr>
<tr>
<td>10</td>
<td>WC-43055</td>
<td>GUARD, SHOCK RESET THERMOSTAT</td>
</tr>
<tr>
<td>11A</td>
<td>WC-904-04</td>
<td>KIT, ELEMENT HEATING 2.5KW 220V W/ JAM NUT &amp; SILICONE WASHERS</td>
</tr>
<tr>
<td>11B</td>
<td>WC-986</td>
<td>ELEMENT, HEATING 1.7KW 240V W/JAM NUTS &amp; O-RINGS</td>
</tr>
<tr>
<td>12</td>
<td>WC-1438-101</td>
<td>SENSOR, TEMPERATURE TANK</td>
</tr>
<tr>
<td>13</td>
<td>WC-4394</td>
<td>GUARD, SHOCK/HEATING ELEMENT FOR SINGLE HEATING ELEMENT</td>
</tr>
<tr>
<td>14</td>
<td>WC-522</td>
<td>THERMOSTAT, HI LIMIT HEATER CONTROL DPST 277V 40A</td>
</tr>
</tbody>
</table>

1 Units built 01/04/2019 and later.
2 Units built before 01/04/2019. Replaces WC-5527
* Recommended parts to stock.
**WARNING:**

**Electric Shock Hazard** - the following procedures are to be performed only by a qualified service technician. Disconnect power when replacing components. Lock out and tag the circuit breaker. 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 G4 universal power module (UPM), **always** check all inlet and dump (brew) valve coils for a short and replace 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 brewer that is not level may not function properly. Make sure the brewer is properly leveled before proceeding.
- This troubleshooting guide identifies some, but not all, 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 brewer and test the valve using the diagnostics in section TG11.

---

**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, and the actual water temperature does not match 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).

---

**Dispenser Overflows During Brewing**

1. Check to make sure the universal control module (UCM) brew, bypass* and dilution* levels are set properly.
2. Check for a missing spray head. Replace as needed.
3. Make sure the dispenser is empty before starting the brew cycle. If not, empty it before brewing.

*Some units do not have this function, see the ELECTRICAL SCHEMATIC.
No Power - Display Not Lit
1. Make sure the circuit breaker to the circuit supplying power to the brewer is not tripped and is turned on.
2. On brewers 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. Check to make sure the wires are not burned/overheated. Check chassis ground.
5. Check the low voltage input to the universal control module (UCM) from the transformer (see the ELECTRICAL SCHEMATIC). 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 water temperatures). If there is still no power through the switch after pushing the button, replace the thermostat reset switch.

Brewer Does Not Start When Brew Button is Pressed
1. If **Brewing** appears on the display, check for faulty wiring and connections between the universal power module (UPM) and the valves.
2. If **Brewing** does not appear on the display, check for a faulty universal control module (UCM) or universal power module (UPM).

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 brewer and return to normal operation, turn the toggle switch on the back of the brewer to the OFF position for 5 seconds, then back ON.

1. Check for and open circuit across the leads of the temperature sensor while it is disconnected from the universal control module (UCM). If an open circuit is measured, replace the sensor.
2. If the sensor resistance is less than 200 kOhm 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.

Water Tank Overfills
1. Turn the toggle switch on the back of the brewer ON and OFF. If water continues to flow when the switch is in both positions, replace the inlet valve.
2. If water stop 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 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, wait for the water tank to cool and push the reset switch button to reset.

1. Check to make sure the water supply is turned on. Check for a plugged water supply line, water filter or 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, check the water probe to see if it is shorted. If the water tank does not start to fill, replace the UPM.

Coffee Too Strong

See *Dispenser Not Filled To Normal Level During Brewing*.

Dispenser Not Filled To Normal Level During Brewing

1. Check to make sure that the universal control module (UCM) brew, bypass* and dilution* levels are set properly.
2. Check to make sure that the flow rate and water pressure from the water supply line meet the minimum specifications for the brewer. See the SPECIFICATIONS section.
3. Check to make sure that the spray head is clean and free of debris. Clean or replace as needed. Also make sure that the spray head is correctly aligned and that the tubing is routed properly to allow for maximum water flow (no kinks).
4. Remove the brew basket and place a large container under the dump (brew) and dilution outlet points. Run a brew cycle and confirm that the brew pump is pumping water during the brew cycle. If the pump is working, check to make sure that the dump (brew) valve opens during the brew cycle. If flow is restricted or nonexistent, check for obstructions in the related tubing or the brew valve. If there are no obstructions, but flow through one particular valve is slow, it can be assumed that the particular valve is not opening all the way and should be replaced. If water does not flow at all through the brew valve, or the brew pump is not working during the brew cycle, check to make sure that power is being supplied to the valve or pump. If power is not being supplied to the valve or pump, check the wiring and the universal power module (UPM). If the wiring is OK, replace the UPM.

*Some units do not have this function, see the ELECTRICAL SCHEMATIC.

Dispenser Overflows All Of The Time

1. Check to see if water continues to flow from the spray head when the toggle switch is turned OFF. Replace the brew valve if it is stuck open.
2. If one or more of the brew 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 Brewer During Brewing

1. Make sure that the water supply is turned on.
2. Check to see if the water in the tank is level with the water tank probe? If not, see Water Tank Does Not Fill.
3. If the water tank is full, the water is hot and power is on, but NO water flows during a brew cycle, the problem is usually a bad universal power module (UPM). Run a brew cycle and check for power from the UPM to the dump (brew), bypass* and dilution* valves. If there is no power output, replace the UPM.
   *Some units do not have this function, see the ELECTRICAL SCHEMATIC.

Low Water Flow Warning
See Water Level Error Message.

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 brewer to the OFF position for 5 seconds, then back ON.

1. Make sure that the water supply valve is completely open and that the water filter is not plugged.
2. Check to make sure that the flow rate from the water supply line meets the minimum flow rate specifications for the brewer. Also check the water pressure. See the SPECIFICATIONS section.
3. Check for blockage at the inlet valve inlet or outlet. Check for blockage in the tubing between the inlet valve and the water tank.
4. Check the water probe wire for an open condition or corroded connections.
5. 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 not water flow, replace the inlet valve.
6. Check for power from the universal power module (UPM) to the inlet valve. If the wiring is OK, replace the UPM.

“Internal Error 1” Message on Display
Check the wiring harness that connects from pins 4, 9 and 11 of the 14-pin connector on the universal power module (UPM) to pins 2, 3 and 6 of the 8-pin connector on the universal control module (UCM).

“Internal Error 2” Message on Display
The universal power module (UPM) and universal control module (UCM) have a mismatch in their settings. A firmware update is needed. See PROGRAMMING GUIDE.
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 brew 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 solid state relay(s) (SSRs) but not out, see the following step. On units having two SSRs, be sure to check both.
3. If there is power into a SSR, but not out, check for 5 Vdc (nominal*) across the + and - pins of the SSR(s). If there is 5 Vdc across the + and - pins of the SSR(s), but no (or low) output voltage at a SSR output terminal, replace the SSR. If 5 Vdc is not being supplied from the UPM, but Heating... appears on the display, check the wiring from the UPM to the SSR(s). If the wiring is OK, replace the UPM.

Water Too Hot (Boiling or Excessive Steaming)

IMPORTANT: Before proceeding, make sure that the control panel temperature is adjusted to compensate for higher elevations. The factory setting is 200°F. Reduce the temperature setting two degrees for every 1000 feet of elevation above 4000 feet.

1. If Over Temp Sensor or Ready to Brew 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 +5 Vdc (nominal) output to the solid state relay (SSR), 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 shorted SSR.

Over Temp Sensor Error Message

This error message indicates that the universal control module (UCM) has detected a water overheating problem. The universal power module (UPM) is reading a water temperature in the tank above 210°F. If the water temperature is too hot, but Heating... appears on the display, see Water Too Hot. Once the malfunction causing the error is corrected, the error message must be cleared. To reset the brewer and return to normal operation, turn the toggle switch on the back of the brewer to the OFF position for 5 seconds, then back on.

1. Check for 5 Vdc (nominal) across the + and - pins of the solid state relay (SSRs). If no power is applied to the SSR and the heating elements are always on, replace the SSR. On units having two SSRs, check both.
2. Turn off power to the brewer and allow the water tank to cool. Once cool, turn power back on while monitoring the voltage across the + and - pins of the SSR(s). During normal operation, the voltage should be 5 Vdc, until the water is hot, then drop to below 1 Vdc. The universal power module (UPM) should be replaced if the voltage reads 5 Vdc constantly even though Ready to brew or Over Temp Sensor appears on the display.
3. If the UPM is operating normally, check for a false over-temp error caused by the temperature sensor. Check the resistance across the leads of the temperature sensor. If the resistance is less than 10 k when the water is cool, replace the temperature sensor.
Overview
The G4 control module diagnostics can be used to detect electrical circuit failures in the brewer. When a circuit failure is identified, the individual components and wiring in the circuit must be checked to determine the exact cause of the failure using the ELECTRICAL SCHEMATIC. If a failure is not detected using the diagnostics, troubleshoot the problem according to the symptoms listed in other sections of this TROUBLESHOOTING GUIDE.

The diagnostics can also be used to help diagnose certain mechanical failures. See the following steps.

Using the Diagnostics
1. Enter programming mode by tapping the (white) Curtis logo on the touchscreen five (5) times.
2. Enter the access code, then press OK (the default code is 1 2 3 4).
3. The MAIN MENU screen will appear. Press Control Settings.
4. Press Diagnostics. When prompted, place an empty container under the brew basket, then press OK.
5. Press a button to test the desired circuit or Auto Test to test all circuits. If a button is highlighted green, the circuit has passed the (electrical) test. If the button is highlighted red, the circuit has failed the test.

If the circuit tested fails, check to make sure that power is being supplied to the component during normal operation. If power is supplied, and it does not operate, replace the component. If power is not being supplied, check the wiring and the UPM.

If a valve circuit passes the test, check for a mechanical failure by listening for the valve to “click” when the test button is pressed. To check for a failed pump, run a brew cycle and check for fluid flow through the pump.

Display view varies with model

Curtis logo

Diagnostics Screen
Button layout varies based on model
### Warning Messages - Allows Brewer to Continue Brewing

<table>
<thead>
<tr>
<th>MESSAGE DISPLAY</th>
<th>WARNING DESCRIPTION</th>
<th>CAUSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maintenance Required</td>
<td>Maintenance Required</td>
<td>Brew count “Gallons Since Reset” exceeds programmed preventative maintenance period.</td>
</tr>
<tr>
<td>Low Water Flow Warning</td>
<td>Low Water Flow</td>
<td>If the Inlet valve remains on longer than XX seconds (during the brew cycle only) and repeats TWICE during that brew cycle. It shall clear upon the next brew and if the same low flow exists again, it will re-appear. XX = Alpha 20 secs; Gem/TP Twin 40 secs; Gem/TP Single 30 secs.</td>
</tr>
<tr>
<td>Internal Error 2</td>
<td>UPM-UCM have a mismatch in their settings.</td>
<td>UPM-UCM have a mismatch in their settings, firmware update needed.</td>
</tr>
</tbody>
</table>

### Error Messages - Brewer Will Stop Brewing

<table>
<thead>
<tr>
<th>MESSAGE DISPLAY</th>
<th>ERROR DESCRIPTION</th>
<th>CAUSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Level Error</td>
<td>Fill run error/Overflow</td>
<td>The water inlet valve has either been open for more than 10 minutes on the initial tank fill or has been open for 120 seconds on large brewers and 30 seconds on CGC, Seraphim®, tea, or combo brewers in normal operation.</td>
</tr>
<tr>
<td>Sensor Error</td>
<td>Open Sensor</td>
<td>Break in the temperature thermistor circuit or short circuit.</td>
</tr>
<tr>
<td>Over Temp. Error*</td>
<td>Excess Temperature</td>
<td>The sensor is reading that the temperature in the heating tank has risen above 210°F, or the sensor has shorted to ground.</td>
</tr>
<tr>
<td>Internal Error 1</td>
<td>UPM-UCM Communication</td>
<td>Break in the UPM-UCM communication circuit.</td>
</tr>
</tbody>
</table>

* This error is disabled on CGC and Seraphim® models.

### Configuration Error Message - Brewer Will Not Function Properly

<table>
<thead>
<tr>
<th>MESSAGE DISPLAY</th>
<th>ERROR DESCRIPTION</th>
<th>CAUSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configuration Error</td>
<td>UPM software revision does not support the model selected.</td>
<td>The universal power module (UPM) has an old software version and is not compatible with the brewer model in which it has been installed.</td>
</tr>
</tbody>
</table>
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 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.