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Installation, Operation & Service Instructions with Parts List

CULLIGAN® Executive Bottle-free Cooler

Featuring:

- Biocote® Protection
- In-Tank UV Protection

Models:

12-WL2200-CUL



Attention Culligan Customer:

Your local independently operated Culligan dealer employs trained service and maintenance personnel who are experienced in the installation, function and repair of Culligan equipment. This publication is written specifically for these individuals and is intended for their use.

We encourage Culligan users to learn about Culligan products, but we believe that product knowledge is best obtained by consulting with your Culligan dealer. Untrained individuals who use this manual assume the risk of any resulting property damage or personal injury.

Culligan Coolers are combined with selected Culligan water treatment components to create a system specifically tailored to match the customer application.



WARNING! Prior to servicing equipment, disconnect power supply to prevent electrical shock.

NOTE This system is not intended for use where water is microbiologically unsafe or with water of unknown quality.



WARNING! If incorrectly installed, operated or maintained, this product can cause severe injury. Those who install, operate, or maintain this product should be trained in its proper use, warned of its dangers, and should read the entire manual before attempting to install, operate, or maintain this product.

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WARNING! This device complies with part 15 of the FCC rules subject to the two following conditions: 1) This device may not cause harmful interference, and 2) This device must accept all intereference received including interference that may cause undesired operation.

This equipment complies with Part 15 of the FCC rules. Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



Installation and Operation Instructions with Parts List

Culligan® Executive Bottle-free Cooler

Models from 2010

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Key Pre-Delivery Activities



CAUTION! The cooler and the water treatment equipment must be properly prepared before the system is delivered to the customer.

Executive Filter Systems

Executive Aqua-Cleer Filter—see Appendix A, Figure 10, on page 36.

• Uses: Carbon block filter and Total Defense filter in two (2) E-Z Change heads.

Executive Reverse Osmosis Systems

Executive Aqua-Cleer RO—see Appendix B, Figure 13 on pages 37-39.

- Uses: Carbon block and RO 50 cartridges in two (2) E-Z Change heads with storage tank and inline post carbon filler.
- For detailed instructions about Aqua-Cleer components please refer to the complete Installation, Operation and Service Manual, Cat. No. 01020219.

Executive LC-100 RO—see Appendix C, Figure 17 on pages 40.

- · Uses: Preferred Series 250 Filter and LC-100 RO with storage tank and inline post carbon filter.
- For detailed instructions about Aqua-Cleer LC components please refer to the complete Installation, Operation and Service Manual, Cat. No. 01882074.

Executive AC50 RO—see Appendix D, Figure 21 on page 44.

- · Uses: AC50 inline post carbon filter and storage tank.
- For detailed instructions about AC 50 components please refer to the complete Installation, Operation and Service Manual, Cat. No. 01018587.

Pre-Delivery Activity: Prepare and Flush Water Treatment Components

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CAUTION! All RO Membranes will require a 24-hour flush to drain. All flushing of membranes and filters must be done with chlorine-free, filtered, softened water.

Activity	Executive Aqua-Cleer Filter	Executive Aqua-Cleer RO	Executive LC- 100 RO	Executive AC50 RO
Flush the filters to drain for at least five (5) minutes with filtered soft water				
Verify that system includes Automatic Shut-Off Valve (P1021587)				
Verify that system includes Check Valve (P1021588)				
Verify system includes Air Gap (44403001 or equivalent) for system drain				
Flush the RO cartridge to a drain with filtered softened water for 24 hours prior to installation				
Flush the carbon block filter to drain for at least five (5) minutes until there are no more carbon fines observed.				
Activate the Preferred Series 250 cartridge and thoroughly flush per the detailed instructions				
Flush the pre-carbon filter and sediment filters to drain				
Flush the carbon post filter to drain				
Sanitize and flush the storage tank				

Pre-Delivery Activity: Prepare and Flush Cooler for Service

Activity	Executive Cooler
Unpack the Cooler.	
Inspect the Cooler for any shipping damage.	
Flush and test the Cooler.	

See the appendixes for details about these activities.

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vi Culligan® Executive Cooler

Introduction

Thank you for purchasing the Culligan Executive Cooler. The Culligan Executive Cooler brings a unique, fresh approach and a new look to point-of-use water treatment systems in the marketplace. The system's contemporary color scheme complements every office environment. Unlike a bottled water cooler, incoming tap water is treated as it is needed, so the water is always fresh and great tasting. Best of all, there are no bottles to change and the supply is virtually unlimited.

The Culligan Executive Cooler is enhanced with BioCote® technology. BioCote® is a unique anti-microbial agent, based on silver ion technology, that inhibits the growth of a broad range of micro-organisms. BioCote® is incorporated into the plastic parts of the system at the time of manufacture, giving it built-in continuous anti-microbial protection against bacteria, mold and fungi, making it cleaner and safer.

Culligan Executive Cooler systems come with a 1 gallon (4 liters) cold tank with an 8-watt in-tank UV lamp. Therefore, the Culligan Executive Cooler systems are protected on the inside by UV and on the outside by BioCote providing the ultimate in cleanliness for your cooler.

The Culligan Executive Cooler comes with two empty single heads installed inside that will enable you to configure it for the condition of the incoming water supply. You decide on the filtration needed and then simply twist the filters into the filter heads behind the lower front panel.

To create the most common two stage filtration system in the tower model, we recommend the following:

- First: 5 micron Carbon Block (Culligan P1020266) to reduce chlorine.
- Second: Total Defense cartridge (Culligan P1020274) for additional fine filtration as well as the reduction of chlorine, chloramines, mercury, lead, cysts, MTBE and VOCs.

Of course, your local water conditions may require alternate selections for the wide range of Aqua-Cleer® cartridges of-fered by Culligan.

In order for the water treatment system to continue to provide high quality water, a thorough understanding of the system and its operation is required. Review this manual before making any attempt to install, operate, or service the system. Installation or maintenance done on this system by an untrained service person can cause major damage to equipment or property damage.

This publication is based on information available when approved for printing. Continuing design refinements could cause changes that may not be included in this publication.

Safe Practices

Throughout this manual there are paragraphs set off by special headings.

Notice

Notice is used to emphasize installation, operation or maintenance information which is important, but does not present any hazard. For example,

NOTICE The nipple must extend no more than 1 inch above the cover plate.

Caution

Caution is used when failure to follow directions could result in damage to equipment or property. For example,



CAUTION! Disassembly while under water pressure can result in flooding.

Cat. No. 01021716 Introduction

Warning

Warning is used to indicate a hazard which could cause injury or death if ignored. For example,



WARNING! Electrical shock hazard! Unplug the unit before removing the timer mechanism or cover plates!

The CAUTION and WARNING paragraphs are not meant to cover all possible conditions and situations that may occur. It must be understood that common sense, caution, and careful attention are conditions which cannot be built into the equipment. These MUST be supplied by the personnel installing, operating, or maintaining the system.

Be sure to check and follow the applicable plumbing codes and ordinances when installing this equipment. Local codes may prohibit the discharge of acid or caustic solutions to drain. An extra solution tank should be used to neutralize the solution before discharging to drain.

Use protective clothing and proper face or eye protection equipment when handling chemicals or power tools.

NOTE The Culligan Executive Cooler is not intended for use with water that is microbiologically unsafe or of unknown quality without adequate disinfection either before or after the system.

NOTE Check with your public works department for applicable local plumbing and sanitation codes. Follow local codes if they differ from the standards used in this manual. To ensure proper and efficient operation of the Executive Cooler to your full satisfaction, carefully follow the instructions in this manual.



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Executive Overview

Executive Overview

Cold Tank

The cold tank is manufactured from 304 Stainless Steel which is non-corrosive, inert and reflects Ultraviolet (UV) light. The cold water temperature is preset at approximately 41°F (5°C) by the factory. The capacity of the cold tank is 1 gallon (4 liters). The water stored in the cold tank is chilled and exposed to UV at the same time. This inhibits bacterial growth in the water and on the internal surfaces of the tank. The cold tank temperature is controlled by a thermostat that is set at the factory.

Hot Tank

The hot water tank has a 0.4 gallon (1.5 liters) capacity. It is manufactured from 304 stainless steel which is non-corrosive and inert. Heating is provided by an 800 watt heating element. The temperature of the Hot Tank is set at the factory to 185°F (85°C). A BI-metal overload thermostat is fitted to stop the tank overheating and is reset manually.

Room Temperature Water

This only provides filtration of your water. No further cooling, heating or treatment is done to the water in this option. The temperature of the water will be the same as the room temperature. The room temperature water should be flushed after long periods of non use, including weekends.

UV Lamp

The UV light is a TUV lamp with a wavelength of 253.7 nm, which is very efficient at controlling bacteria. UV light inactivates bacteria by compromising their DNA. An 8 watt UV lamp is used in the Executive unit. The UV lamp is immersed in the center of the cold tank. It is protected by a quartz sleeve which allows UV light to pass through to the water. The UV lamp should be changed every 12 months. The quartz sleeve should be removed and cleaned when the lamp is changed.

PCB

The PCB (Printed Circuit Board) is the control unit for the Executive Cooler. It is responsible for the selection and dispensing of water. The PCB drives an LED which informs the user of the status of the unit. The PCB has a power on indicator and also indicates to the user what option of water is currently selected by changing color. Cold water will always be the default option. Hot water must be selected and then the main button pressed in order to dispense hot water.

Compressor

The compressor uses R134a non-ozone depleting refrigerant gas. The compressor is controlled by an electromechanical thermostat, which controls the temperature of the water in the cold tank unit.

Water Pipe and Fittings

All water connection fittings are approved to NSF standard 61. The machine is connected to the water supply by a 1/4" female bulkhead fitting. The entire internal water circuit and all components which come in contact with water are food grade NSF / WRAS approved.

Water Valves

Water dispensing to the customer is achieved by means of a 24V DC electrical solenoid valve. The valves are energized each time the customer pushes the dispense button for a drink. DC voltage is used for safety.

Plastic Panels

The molded panels are made from recyclable ABS plastic. All the ABS plastic panels are UV resistant and meet the standards of CE and UL.

Cat. No. 01021716

Main Parts Layout

Executive Cooler Layout—Hot, Cold, and Ambient

OUT (Water) FAUCET COLD WATER OUT **AIR VENT HOT WATER OUT** UV LAMP AMBIENT WATER OUT COLD FILTER DRYER HOT SOLENOID VALVE (Ambient) SOLENOID VALVE (Cold) SOLENOID VALVE (Hot) CONDENSER See Appendix for Configurations IN (Water) COMPRESSOR

Figure 1. Executive Cooler layout.

Safety Information

Electrical Safety

- · Only connect the power cord to a 120V, 15A (GFI preferred) properly grounded outlet.
- Never pull the power plug from the outlet with a wet hand or allow the plug to get wet.
- Keep the power cord out of heavy traffic areas. To avoid a fire hazard, never put the power cord under rugs, near radiators, stoves or heaters.
- Do not use a damaged power cord or plug. If the power cord is damaged, a qualified service technician must replace it.
- · Do not use an extension cord with the Executive Cooler.

Installation and Usage Safety

- · Keep the Executive Cooler away from direct sunlight and excessive humidity.
- Keep at least 3 inches from the wall.
- Do not lay the Executive Cooler down on its side. If for some reason the unit was placed on its side, it must stand upright for a minimum of 2 hours before operation to allow the compressor to stabilize.
- Connect the water supply to a cold water line only. Feed water over 105°F (41°C) can damage the filters.
- Never install the system where it could freeze.
- If the feed water pressure is over the recommended operating pressure of 60 psi (4 bar), install a pressure-reducing valve in the water line. Be aware of pressure transients.
- Filters should be replaced on schedule. Overused filters will deteriorate the performance of the system.
- Drain the water out of the Executive Cooler after long periods of non-use; this will allow a fresh batch of water to fill the system.

Cat. No. 01021716 Safety Information

Inspection and First-Time Setup Procedure

Unit Inspection

1. In your shop, unpack and carry out a visual inspection of the unit for any shipping damage.

NOTE All preparation work should be done in a clean area. A separate room is recommended.

- A Culligan IQR form is shipped with each unit. Fill out the IQR form and return to Culligan Quality Department.
- Remove the top cover of the machine. This is retained by two screws located under the front edge at the bottom of the cover and two clips in the same location. Remove the screws and push clips up to release. To gain easier access to the screws, tilt the machine backward at an angle of 10 degrees.

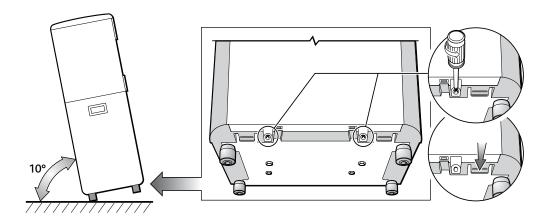


Figure 2. Executive Cooler unit balancing screws.

Visually inspect the internals of the machine for any wires or pipes that may have come loose in shipping.



CAUTION! The unit is now live. Take suitable safety precautions.

Prepare the Unit for Sanitizing

1. Plug the filter heads based on the configuration of the unit.

Aqua-Cleer® Filter	Use bypass plugs (P1020279).
Aqua-Cleer® RO	Use bypass plugs (P1020279).
LC 100 RO	Use bypass plugs (01010098). Plug the restrictor outlet in the RO head with a 3/8" stem plug (01005650).
AC 50 RO	Attach empty housings to manifold.

- 2. Open the top cover and unplug one of the UV wire connectors. UV light can break down some sanitizers.
- Using the sanitizer cartridge, remove the bottom screw plug of the sanitizer cartridge and pour in 15 mL of unscented, liquid chlorine bleach (6% Sodium Hypochlorite)
- Carefully screw the bottom plug into the cartridge and insert cartridge into the left hand single head inside cooler
- Connect a clean, filtered, soft water supply to the unit. Pressure must be 40–60psi (2.8–4.1 bar).

6. Ensure the red switch on the rear of the unit is in the OFF position. Connect the power cord to the unit and to a power supply. 15A with GFI is recommended.

OTE It may take several minutes before the hot tank is full and water begins to flow from the dispensing head. Flush approximately 3 gallons (11 liters) of water through the hot tank.

Sanitize the Unit

- 1. Slowly turn ON the water supply. The incoming water will mix with the chlorine.
- 2. Press and hold the large dispense (Cold) button to start flushing water through the unit.
- 3. Stop flushing when water with a chlorine smell starts to flow from the dispensing head.
- 4. Do not dispense any of the sanitizing solution through the hot tank.
- 5. Allow the sanitizer solution to stand in the unit for 20–30 minutes.
- 6. Activate and hold the large dispense (Cold) button. Flush 3 gallons through the unit and the cold tank.
- 7. Activate and hold the Hot button. Flush 3 gallons through the hot tank.
- 8. Activate and hold the room temperature button. Flush 1 gallon (4 liters) through the unit.
- 9. Verify that all chlorine has been rinsed from the hot, cold, and room faucets with a chlorine test.

Remove the Sanitizing Cartridge

- 1. Turn OFF the water supply. Activate the dispense button to relieve any pressure in the unit.
- 2. Unplug the power cord.
- 3. Remove the sanitizer cartridge and EZ head. Reconnect the inlet feed tubing to the unit.
- 4. Remove all bypass plugs from the heads or the empty housings on an AC 50 RO configuration.

NOTE Prepare all filters, RO cartridges, and the RO storage tank strictly in accordance with the instructions included in the Appendix section of this manual.

Install and Flush the Water Treatment Components

NOTE If prep station has a plumbed in RO, then use the RO water for final rinse, bypassing the installed cartridges.

- If the unit is going to be configured with an LC-100 or AC 50 RO system, remove the EZ heads and install the other components.
- 2. Install the properly prepared water treatment equipment inside the POU Cooler.
- 3. Reconnect the UV wiring connectors in the top of the unit.
- 4. Turn ON the water supply and plug in the unit.
- 2. Slowly turn ON the water supply. Open the ball valve on the top of the full RO water storage tank.
- 6. Flush 1–2 gallons (4–8 liters) of hot water, 1–2 gallons (4–8 liters) of cold water, and 1 gallon (4 liters) of water through the unit to flush the new water treatment components and the water in the unit. Verify the water is running clear of any carbon fines or color.

- 7. Visually verify that the UV Lamp is working—look for a faint blue glow underneath the silicon fitting on the top of the UV Lamp.
- 8. Verify that the compressor starts by feeling the head of the compressor for vibration. The temperature in the cold tank should reach its target temperature within 45 minutes. When the unit has reached target cold temperature, the compressor will cycle off. The target temperature range is between 41° F and 46° F (5° and 8° C) (+/- 5%). The hot tank will take considerably less time to reach its target temperature of 185° F (+/- 5%).
- Adjust the cold water temperature by regulating the thermostat situated at the back of the unit. This thermostat is set at a specific point at the factory. This point is marked out by a small dot situated on the outside of the thermostat.
- 10. After 45 minutes, verify proper heating and chilling.
- 11. Turn the Red Power Switch OFF.
- 12. Hold a pitcher under the Hot dispensing faucet. Depress the Hot unlock button, followed by the Hot dispense button, and allow water to continuously run through the hot tank until the water runs cool from the faucet. This is done to avoid scalding during draining.
- 13. Disconnect the power cord from the 120 Volt electrical outlet.
- 14. Turn off the water supply to the unit.
- 15. Disconnect the water supply from the unit.
- 16. Open the hot and cold tank drain caps on the back of the unit and drain completely. Wipe down any excess water inside and around the unit and replace the lower front panel.
- 17. Return cooler to the original box.
- 18. The Executive Cooler should be installed within 24 hours.

NOTE Prepare all filters, RO cartridges, and the RO storage tank strictly in accordance with the instructions included in the Appendix section of the manual

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Installing the Executive Cooler

Position the Unit

Per Culligan Corporate policy, you must install an external leak controller during install of the Executive Cooler (Part # D1018733)

- Locate the unit as close to an electrical connection and feedwater water supply as possible with a 3 inch (8 cm) clearance at both sides and back of the unit.
- Mount the unit on a firm flat surface so that it cannot topple over.
- 3. Level the machine using the adjustable feet.



CAUTION! The machine should not be exposed to direct sunlight, heat sources, or an ambient air temperature above 90°F (32°C) or below 37°F (3°C).

NOTE The water supply and electrical supply should be within 6 ft (1.8 m) of the unit for ease of installation.

- Remove the lower front cover. This is retained by two screws located under the front edge at the bottom of the cover and two clips in the same location.
- Remove the screws and push clips up to release. To gain easier access to the screws, tilt the unit backward at an angle of 10 degrees.

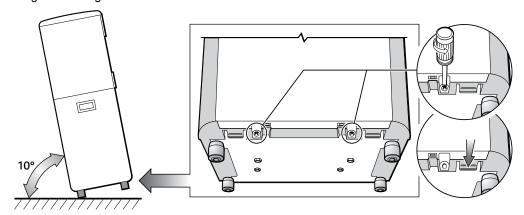


Figure 3. Executive unit balancing screws.

Establish the Water Connection

- 1. Establish the water connection.
- The use of a pressure regulator is recommended for water supplies that have pressure fluctuations. This should be installed on the water supply before the inlet connection to the unit. Minimum operating pressure for the unit to work suitably is 40 psi (2.8 bar). The ideal operating pressure is of 60 psi (4.1 bar).

At pressures higher than 80 psi (5.5 bar), the unit will not function correctly and can lead to leaks. Pressure below 40 psi (2.8 bar) will require the use of a booster pump for proper RO performance.

- 3. Set pressure regulators at 60 psi (4.1 bar).
- Flush the water supply pipe until it runs clear before making the water connection to rear of the unit.

- 5. The filters were already installed in the unit at the shop during initial start up.
- Plug the power lead into the back of the unit. As soon as you plug the unit into a suitable power supply (15A GFI outlet is preferred), voltage will be available to the PCB and solenoid valves, and you can now start to flush water through the machine.
- 7. The hot water temperature is set at 185°F (85°C) (+/- 5%) and the cold water temperatures is set at 41°F (5°C) (+/- 5%)at the factory. It is not possible to adjust the hot water temperature.
- 8. Verify proper temperature at install.



CAUTION! The unit is now live. Take suitable safety precautions.

NOTE Do not turn on the red switch (heater and compressor switch) at the rear of the machine. This switch should only be turned on once the hot tank is filled with water.

NOTE Do not adjust the cold thermostat past the factory set point of 41°F (5°C), as this may result in the system freezing.

Flush and Fill the Unit

NOTE For units using RO treatment: Because the RO make-up rate is so slow, use a full storage tank (with RO treated water) for the following fill and flush steps.

- 1. Connect the full storage tank of RO water to a tee installed ahead of the unit solenoids.
- 2. Slowly turn on the water supply and open the ball valve on the full RO storage tank.
- 3. Select the hot water option. Press and hold the dispense button to start flushing water through the filters and hot tank.

NOTE It may take several minutes before the hot tank is full and water begins to flow from the dispensing head. Flush one to two (1–2) gallons (4–8 liters) of water.

4. Select the cold water option. Press and hold the cold dispense button to fill the cold tank.

NOTE It may take several minutes before the cold tank is full and water begins to flow from the dispensing head. Flush one to two (1–2) gallons (4–8 liters) of water.

- 5. Check the unit for any water leaks and ensure that all water fittings are secured properly.
- 6. Replace the lower front cover.

Heat and Cool the Water

- Once you are satisfied that water is passing through both the hot and cold tank successfully, then turn on the red switch (heater/compressor switch) located at the rear of the unit. The unit will now start to heat and chill.
- 2. Heat the water to approximately 185°F (85°C) (+/- 5%).
- Cool the water in the cold tank. When the unit has reached the set temperature, the compressor will stop running. The temperature may continue to drop as any ice that has formed on the sides of the tanks will start to melt and equalize the tank temperature.

- 4. Test the water temperatures.
- 5. Taste the water. If you are not satisfied with the quality of the water, check the filters and flush additional water through the unit.

Inspect the Unit

- 1. Check the unit to make sure it is electrically safe.
- 2. Check that the unit is clean and functions to the customer's satisfaction.
- 3. Apply service maintenance label to the side of cooler.
- 4. Apply marketing cross-sell to top of cooler.
- 5. Answer any customer questions regarding use of the unit and operation of the buttons.

Operating the Executive Cooler

Your Executive Cooler is ready for use when the three (3) colored LEDs on the front panel are all illuminated. If the LEDs are not illuminated, the machine has entered sleep mode. Push any button to bring the machine out of sleep mode.

Operating the machine is very simple.

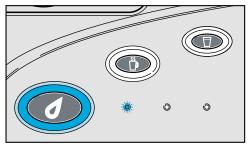
- 1. First, place a cup in the dispense area.
- 2. Select the water temperature of your choice.
- 3. Press the dispense button until your cup is filled to the required level.

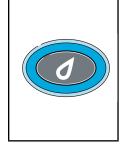
CAUTION!	HOT WATER
	Always place cup / mug in the center of the bulls eye marking on the drip tray.
	☐ Always use a ceramic cup or a cup suitable for use with hot water.
	 Do not hold cup or place hands in dispensing area while dispensing water.
	Do not dispense water in a stop-start style of vending. Hold button continuously until cup is full).
	☐ Never try to fill more than one vessel at a time.

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Dispensing Hot/Cold/Ambient Water

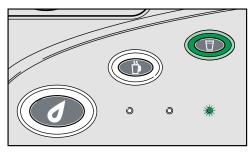
Dispensing Cold Water (Default Mode)

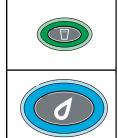




 Push the dispense/cold water default button. The button backlight will light blue and the blue LED will blink. The machine will dispense cold water.

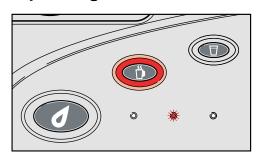
Dispensing Ambient Water

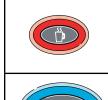




- Push the room temperature water button on the right. The button backlight will light green and the green LED will blink.
- Push the dispense button. The machine will dispense room temperature water.

Dispensing Hot Water





- Push the hot water button in the middle and hold for three (3) seconds. The button backlight will light red and the red LED will blink.
- 2.
- Push the dispense button. The machine will dispense hot water.

Dispensing Extra Hot Water







- Push the hot water button in the middle twice within one (1) second. The middle LED will light orange while the extra heating takes place. Once the extra heating is complete the LED reverts to red. If the LED is not orange then the temperature is already extra hot.
 - Push the dispense button. The machine will dispense extra hot water.

Maintenance and Service

All personnel should be aware of company requirements for their own cleanliness and hygiene when servicing and sanitizing a unit.

Executive Cooler

Maintenance/12-Month Service Interval

Every twelve (12) months, the filters and UV lamp should be changed. Units in dusty or high use locations may need more frequent servicing. A machine with the hot water option may require removing any Calcium build-up inside the hot tank, depending on local water conditions and the type of water treatment.

A full RO storage tank must be available for flushing steps.



CAUTION!

The machine should not be exposed to direct sunlight, heat sources, or an ambient air temperature above 90°F (32°C) or below 37°F (3°C).

Do not clean this appliance with a water jet.

NOTE You must use latex gloves when handling the filters, UV bulb, quartz sleeve or any components that have contact with the drinking water.

Prepare the Unit for Sanitizing

- 1. Turn OFF the water supply. Activate the dispense button to relieve any pressure in the unit.
- Turn OFF the red switch at the rear of the unit and unplug the power cord.
- On RO systems, close the ball valve on the top of the RO storage tank.
- Remove and dispose of all old filters from the unit.
- Open the top cover and remove the UV lamp.
- Unscrew the UV retaining nut and remove the Quartz Sleeve by pulling straight up. Clean the Quartz Sleeve with isopropyl rubbing alcohol and remove any surface lime scale that may have adhered to the sleeve surface. Check and replace the black O ring if necessary.
- Replace quartz sleeve if etched, cracked or unable to be cleaned.
- Reinstall the Quartz Sleeve and retighten the UV retaining nut. Tighten about 1/4 turn after the gasket makes contact.
- Replace the UV lamp and wiring harness/starter. Leave one of the wires disconnected until after the sanitization procedure is complete.



CAUTION! Do not touch the UV lamp or the Quartz sleeve with bare hands.

- 10. On units using RO, disconnect the storage tank from the product line tee and plug the tubing tee with a \(\frac{4}{3} \) stem plug (01001142). Sanitize the storage tank separately.
- 11. Plug the filter heads based on the configuration of the unit.

Aqua-Cleer® Filter	Use bypass plugs (P1020279).
Aqua-Cleer® RO	Use bypass plugs (P1020279).

	Use bypass plugs (01010098). Plug the restrictor outlet in the RO head with a 3/8" stem plug (01005650).
AC 50 RO	Attach empty housings to manifold.

- 12. On units using RO, remove the carbon post filter. Use a ¼" tube x ¼" tube connector (00403729) to join the product tubing where the filter was located.
- 13. Open the top cover and unplug one of the UV wire connectors. UV light can break down some sanitizers.
- 14. Using the sanitizer cartridge, remove the bottom screw plug of the sanitizer cartridge and pour in 15 mL of unscented, liquid chlorine bleach (6% Sodium Hypochlorite)
- 15. Carefully screw the bottom plug into the cartridge and insert cartridge into the left hand single head inside cooler
- 16. Plug in the power cord.



CAUTION! The unit is now live. Take suitable safety precautions.



CAUTION! Do not remove the lamp from holder while illuminated and NEVER look into a lit UV light.

Cat. No. 01021716 Maintenance and Service 1

Sanitizing the Executive Cooler

Sanitize the Unit

- 1. Slowly turn ON the water supply. The incoming water will mix with the chlorine.
- 2. Press and hold the large dispense (Cold) button to start flushing water through the unit. (See page 12 for details on the operation of the control buttons).

NOTE It may take several minutes before the cold tank is full and water flows from the dispensing head.

- Stop when water with a chlorine smell starts to flow from the dispensing head.
- Do not dispense any of the sanitizing solution through the hot tank.
- Allow the sanitizer solution to stand in the unit for 20-30 minutes.
- Activate and hold the large dispense (Cold) button. Flush 3 gallons through the unit and the cold tank.
- 7. Activate and hold the hot button. Flush 3 gallons through the hot tank.
- 8. Activate and hold the room temperature. Flush 1 gallon (4 liters).

Remove the Sanitizing Cartridge

- 1. Turn OFF the water supply. Activate the dispense button to relieve any pressure in the unit.
- Unplug the power cord.
- 3. Remove the sanitizer cartridge and EZ head. Reconnect the inlet feed tubing to the unit.
- 4. Remove all bypass plugs from the heads or the empty housings on an AC 50 RO configuration.

Replace the Filter

Prepare all filters, RO cartridges, and the RO storage tank strictly in accordance with the instructions included in the Appendix section of this manual.

- On units using RO, reconnect a full RO storage tank that has been sanitized separately per the instructions in the Appendixes.
- Install new filters.
- On units using RO, reconnect the carbon post filter.
- Plug in the power cord.



CAUTION! The unit is now live. Take suitable safety precautions.

- Reconnect the UV Light
- Replace batteries on external leak controller.



CAUTION! Do not remove the lamp from holder while illuminated and NEVER look into a lit UV light.

Flush and Return to Service

- 1. Slowly turn ON the water supply. Open the ball valve on the top of the full RO water storage tank.
- 2. Flush 1–2 gallons (4–8 liters) of hot water, 1–2 gallons (4–8 liters) of cold water and 1 gallon (4 liters) of water through the unit to flush the new water treatment components and the water in the unit. (See page 12 for details on the operation of the control buttons). Verify the water is running clear of any carbon fines or color.
- 3. Turn ON the Red Power Switch to start the chilling and heating processes.
- 4. Verify that the compressor and heater are both working: place a hand on top of the compressor to feel for vibration, then dispense water from the hot tank (after five minutes), noting a temperature increase in the water.
- 5. Visually inspect water connections for any leaks.
- Remove the faucet nipple and inspect to see if there are any cracks or scratches or lime-scale build up on the nipple, if so then replace it. If the faucet nipple is OK, sanitize it with a bacterial wipe or spray and put back using clean latex gloves.
- 7. Remove and clean the drip tray and grill. If the grill is damaged or heavily stained it should be replaced.
- 8. Wipe all surfaces around the drip tray and faucet nipple area with a bacterial cleaning wipe or spray.
- 9. Return the drip tray to the unit.
- 10. Check that the UV lamp is functioning by observing a blue glow from the top of the UV cap.
- 11. Close the top cover and front cover of the unit.
- 12. Taste the water. Check the unit is clean and functions to the customer's satisfaction. If you are not satisfied with the quality of the water, check the filters and flush additional water through the unit. Answer any customer questions regarding use of the unit.
- 13. Update service maintenance label.

Descaling the Executive Cooler

Maintenance and Service Interval

Executive units using an RO configuration should rarely need to be descaled.

A full RO storage tank must be available for flushing steps.

NOTE All personnel should be aware of company requirements for their own cleanliness and hygiene when servicing and sanitizing a unit.

NOTICE You must use latex gloves when handling the filters, UV bulb, quartz sleeve or any components that have contact with the drinking water.

NOTE Use the Culligan Aqua-Cleer® sanitizing cartridge (P1020277) when descaling the Executive Cooler.

The Executive Cooler units using a filter configuration should be de-scaled at least once every twelve (12) months if installed on a hard water supply or sooner if symptoms of hot tank fouling occur.

Common Signs of Hot Tank Scaling Requiring Descaling

- · The hot tank sounds like it is boiling inside.
- Steam is escaping from the dispensing nozzle.
- A double stream of water flows from the faucet and the vent behind the faucet.
- The hot water dispenses abnormally from the unit.

Certain symptoms may signify the need to descale the cold tank, though these cases are very rare. If the cold water dispenses a double stream, or if cold water drizzles from the faucet for an extended time (longer than 15 seconds) after the dispensing button has been released, then you may need to descale the cold tank.

Prepare the Unit for Descaling

- Turn OFF the water supply. Activate the dispense button to relieve any pressure in the
- Turn OFF the red switch at the rear of the unit and unplug the power cord.
- Remove all the filters from the unit and set them aside in a clean place.
- Place the Culligan Aqua-Cleer® sanitizing cartridge (P1020277) in the left-hand single head
- On units using RO, Turn off the tank ball valve, disconnect the storage tank from the product line tee and plug the tubing tee with a 1/4" stem plug (01001142).
- 6. Plug the filter heads based on the configuration of the unit.

Aqua-Cleer® Filter	Use bypass plugs (P1020279).
Aqua-Cleer® RO	Use bypass plugs (P1020279).
LC 100 RO	Use bypass plugs (01010098). Plug the restrictor outlet in the RO head with a 3/8" stem plug (01005650).
AC 50 RO	Attach empty housings to manifold.

On units using RO, remove the carbon post filter. Use a 1/2" tube x 1/2" tube connector (00403729) to join the product tubing where the filter was located.

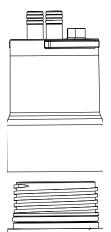


Figure 4.

- 9. Open the top cover and unplug one of the UV wire connectors. UV light can breakdown some descaling chemicals and cause taste problems.
- NOTE When mixing the descaling solution in the empty sanitizing cartridge, try adding a little red or green food coloring to the mixture. adding food coloring will make it easier when flushing the unit later when you need to verify all descaler solution has been flushed from the unit.
 - 10. Remove the bottom screw plug of the sanitizer cartridge and pour 1 bag of ScaleKleen (7 oz. bag of non-toxic citric acid-based descaler, Innowave part # 01-2076) into the sanitizer cartridge. Add red or green food coloring to the solution in order to make it easier to tell when the solution is completely flushed. In lieu of food coloring, a pH test kit can be used.
 - 11. Carefully screw the bottom plug into the cartridge and insert cartridge into the left-hand EZ head.
 - 12. Plug in the power cord.



CAUTION! The unit is now live. Take suitable safety precautions.



CAUTION! DO NOT turn on the red switch at the rear of the unit.

Descale the Unit

- Slowly turn ON the water to mix and deliver the descaling solution to the unit.
- 2. Select the hot water option. Press and hold the button to flush 2-3 cups from the dispenser nozzle which will fill the hot tank with the descaling chemical.
- 3. Turn ON the red switch at the rear of the unit.
- 4. Allow the hot tank to heat and descale for at 10-20 minutes.
- 5. If the cold tank requires descaling, dispense 2-3 cups from the cold side and allow a 10-20 minute wait.
- 6. After the wait period, but prior to removing the sanitizer cartridge, try dispensing water from the hot side (and/or cold side if it needed descaling) and verify proper operation. A smooth stream should come out of the dispensing nozzle. In some extreme circumstances, additional treatments and soak time will be required for the descaler to effectively work.
- 7. Flush 3 gallons (11 liters) of hot water, 3 gallons (11 liters) of cold water and 1 gallon (4 liters) of water through the unit to flush the descaling chemicals from the unit. Verify the water is running clear of any color. Make sure all descaler has been adequately flushed from the system.
- 8. Turn OFF the water supply. Activate the dispense button to relieve any pressure in the unit. Remove the sanitizer cartridge from EZ head.
- 9. Remove all bypass plugs from the heads or the empty housings on an AC 50 RO configuration.
- 10. Remove the faucet nipple and inspect to see if there are any cracks or scratches or lime-scale build up on the nipple, replace it. If the faucet nipple is okay, sanitize it with a bacterial wipe or spray and put back using clean latex gloves.

- 11. Re-Install the filters.
- 12. On units using RO, reconnect the RO water storage tank.

NOTE If the filters are new, the preparation of all filters, RO cartridges and the RO storage tank must be done strictly in accordance with the instructions included in the Appendix section of this manual.

- 13. On units using RO, reconnect the carbon post filter.
- 14. Reconnect the UV lamp and verify it is functioning by observing a blue glow from the top of the UV cap.



CAUTION! Do not remove the lamp from holder while illuminated and NEVER look into a lit UV

Flush and Return Unit to Service

- 1. Turn on the water supply. Open the ball valve on the top of the full RO water storage tank.
- With the filters reinstalled, flush 1–2 gallons (4–8 liters) of hot water, 1–2 gallons (4–8 liters) of cold water, and 1 gallon (4 liters) of ambient water through the unit to flush the new water treatment components and the water in the unit. Verify the water is running clear of any carbon fines or color.
- Visually inspect water connections for any leaks.
- Remove and clean the drip tray and grill. If the grill is damaged or heavily stained it should be replaced.
- Wipe all surfaces around the drip tray and faucet nipple area with a bacterial cleaning wipe or spray. 5.
- Return the drip tray to the unit.
- Close and screw down top and front cover of the unit.
- Taste the water. Check the unit is clean and functions to the customer's satisfaction. If you are not satisfied with the quality of the water, check the filters and flush additional water through the unit. Answer any customer questions regarding use of the unit.

Cat. No. 01021716 20 Culligan® Executive Cooler

Troubleshooting

The following is a list of different problems that may be found while installing and operating the Executive Cooler.

NOTE Fault finding must only be carried out by trained personnel.

Symptom	Possible Cause	Solution
NO FLOW OF WATER		In this case, make sure that there is a water supply to the unit and that it is turned on. If an anti-flood or leak detection device is installed, please check and reset if necessary. For units with EZ heads, ensure that the filter is twisted all the way into the head; otherwise the valve inside the filter head will not be opened. Check to see that the filter is not blocked with sediment
THERE IS FLOW FOR THE HOT WATER, BUT NO FLOW FOR THE COLD WATER	This may be a result of the water inside the cold tank mechanism being frozen.	Verify that the thermostat is set at the factory setting. Disconnect the power mains from the back of the machine and allow the ice inside the cold tank to melt.
WATER DISPENSED BY THE UNIT IS NEITHER HOT NOR COLD		Make sure that the red heater/compressor switch at the back of the unit is turned on.
THE POWER INDICA- TOR IS NOT ON		Make sure that the unit is plugged in correctly and that the red switch is on. If the unit is properly set up, then remove the top cover of the machine and check the fuse on the back of the unit.
BAD TASTE		Flush the unit for a period of 15 minutes. If the bad taste persists taste the water coming directly from the filter, if still bad change the filter, or contact your authorized service provider.
LOW FLOW OF COLD WATER	If this happens in the cold water circuit, there may be a problem with freezing.	Please refer to "There is flow for the hot water, but no flow for the cold water".
LOW FLOW OF WATER FOR ALL CIRCUITS OF THE UNIT	The filter may require changing, or there is low water supply pressure.	Ensure that the filter is not blocked.
LOW FLOW OF HOT WATER	Indicates that the hot tank needs to be de-scaled.	
HOT WATER IS COLD	If all the electrical connections are fitted properly, there is a chance that the overload mechanism has been triggered.	In this case, unplug the unit, remove the upper and lower front panels to gain access to the hot water tank. On the side of the hot tank there is a manual reset button for the overload mechanism. Press the button and reassemble all the panels. Plug in the unit and make sure it continues to heat up the water as normal.
COLD WATER IS WARM		Make sure that you are not testing the ambient option. Check the thermostat is at the set point. Make sure the unit is not in direct sunlight or a room with a high ambient temperature (32°C +). Ensure the heater/compressor switch is on. If none of the prior are the source of the issue, then assume standard refrigeration fault finding procedures.
UV FAILURE		Unplug the unit. Make sure the lamp is connected correctly. Remove and visibly check. Is the UV starter operating? If the lamp and starter are OK check UV ballast.

Cat. No. 01021716 Troubleshooting 21

Technical Specifications

Item	Executive Cooler
Midth / Donth / Hoight	15.5" x 14.5" x 40.5"
Width / Depth / Height	343mm x 368mm x 1029mm
Water Connection	1/4" Tubing
Cold Water Temp	41 - 44°F (5 - 7°C)
Cold Tank Size	1 Gallon (4 Liters)
Hot Water Temp	185°F (85°C)
Hot Tank Size	0.4 Gallon (1.5 Liters)
Room Temperature	37 - 90°F (3 - 32°C)
Min/Max Water Pressure	40 - 80 psi (2.8 - 5.5 bar)
Recommended Water Pressure	60 psi (4.1 bar)
Weight (Dry)	64lbs (29kg)
Electrical Supply	120V / 60Hz
Heater	800W
UV Lamp	8W
Refrigeration Gas R134a	2.3 Oz (65 grams)

Environmental Information

This information is provided as guidance only. Energy consumption will be affected by incoming water temperature, room temperature and usage patterns.

PRODUCT/MODEL DESCRIPTION	ENERGY COMSUMPTION IN NORMAL OPERATION	MAXIMUM NOISE LEVEL	
Executive Cooler	Kilowatt/Hours (KwH)	Decibels	
Hot, Cold & Ambient	2.51	0.2	

End of Life

At the end of this product's life, please ensure that it is disposed of in an environmentally friendly manner which is fully compliant with your Country requirements/guidelines.

Limited Warranty for the CULLIGAN® Executive Water Treatment System

This water treatment system is guaranteed to the original user only to be free of defects in materials and workmanship for a period of one (1) year from the date of purchase, or initial lease, but in no event longer than twenty-four (24) months from the date of manufacture. innowave will not be liable for any cost of removal, installation, transportation, or any other charges which may arise in connection with a warranty claim. innowave will not be liable for damage or wear to products caused by abnormal operating conditions, accident, abuse, misuse, unauthorized alteration or repair, or if the products were not installed in accordance with innowave's printed installation and operating instructions, or for any damage caused by hot water, freezing, flood, fire, or acts of God.

In the event of a claim for warranty, the defective part must be returned to innowave, together with proof of purchase, installation date, failure date and supporting installation data. Any defective part returned to innowave incorporated must be sent freight prepaid. Documentation to support the warranty claim and/or a Return Authorization form must be included, if so instructed. Innowave, at its sole discretion, will determine whether to correct the defect or replace the unit, or will request that the unit be returned to innowave.

Provided a claim is based on a defect in materials or workmanship; and provided the claim is made within the warranty period; and provided the user has used and maintained the equipment in accordance with the manufacturer's instructions, innowave will replace the parts free of charge. If the unit is returned to innowave for repairs, the end user will pay the cost of freight in both directions.

This warranty does not apply to damage caused by, or resulting from, shipping, accident, alteration, misuse or abuse, unauthorized or improper installation, or to units used outside the country where the unit was rented or purchased. The effects from chlorine corrosion, scaling and normal wear are specifically excluded from this warranty.

Innowave hereby disclaims any and all implied warranties including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The manufacturer or its agents shall not be liable for consequential damages, whether economic or otherwise, resulting from breach of this limited warranty. Failure to follow all instructions for operation and maintenance provided with this unit voids the warranty.

This warranty gives you specific legal rights and you may also have other rights which may vary from country to country.

Innowave USA LLC 11710 Stonegate Circle Omaha NE 68164 Toll-Free 1-800-288-1891

Cat. No. 01021716 Warranty 23

BioCote®

BioCote® (Anti-Microbial Solution)

For your added protection this product has been treated with BioCote®.

Silver, in the form of silver ions, is the active ingredient utilized in BioCote®. This silver technology is manufactured into our products, giving them built-in antimicrobial protection.

BioCote® silver technology has been tested by an independent laboratory to show its ability to inhibit the growth of bacteria, mold and fungi by up to 99.9% over a 24 hour period and for the duration of the machine life.

Frequently Asked Questions About BioCote®:

Why Use BioCote®?

BioCote® will help reduce the risk of cross-contamination. You may not want to think about it, but every surface in the working environment is a potential breeding ground for bacteria.

How is it Applied?

BioCote® is applied via an additive into the manufacturing process and will therefore be present throughout the molded or painted parts.

How Long Will BioCote® Last?

BioCote® will last for the usual life expectancy of your water dispenser. It will not wear or wash out with use or cleaning.

What Bacteria is BioCote® Effective Against?

BioCote® is effective against most common bacteria, mold, and fungi.

NOTE BioCote® is a second line of defense, it is not a replacement for your normal cleaning and sanitization processes.



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Electrical Wiring Diagram

Hot, Cold, and Ambient In-tank UV (AC120V)

Mark	Description		
0V	Thermostat for overheat		
1V	Thermostat for overheat		
Н	Hot water heater		
LED1	Ambient water display		
LED2	Hot water display		
LED3	Cold water display		
MC	Motor for compressor		
PF	Power fuse		
PS1	Heater/Compressor switch		
SOL 1	Cold solenoid valve		
SOL 2	Hot solenoid valve		
SOL 3	Ambient solenoid valve		
SW1	Ambient mode switch		
SW2	Hot mode switch		
SW3	Water out switch		
Т	Transformer		
TH1	Cold thermostat		
HR	Hot thermostat		
SW4	Filter timer reset switch		

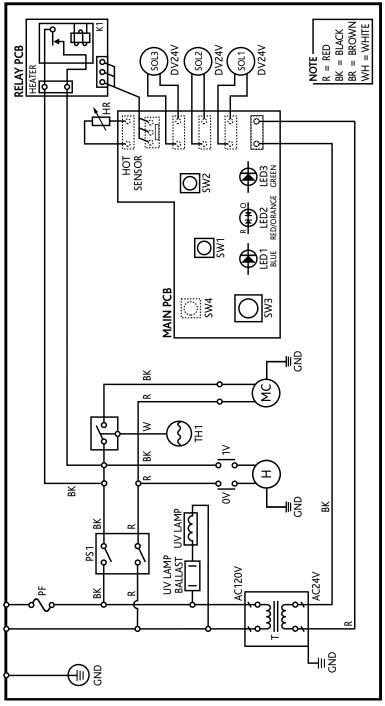


Figure 5. Electric wiriing diagram

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POWER SOURCE AC120V/60Hz

Executive Wetted Parts List

Hot, Cold, and Ambient In-tank UV (AC120V)

Item	Innowave Part Number	Description		
1	10-3067	1/4" to 1/4" Bluk Head Fitting		
2	19-1054	1/4" PE Tube		
3	12-5280	Culligan Filter Head		
5	N/A	1/4" Equal Tee		
6	12-1500	Solenoid Valve		
7	N/A	5/16" to 1/4" Reducing Elbow		
8	10-3062	5/16" PE Tube		
9	N/A	Cold Tank 1 Gallon (4 Liter) - Tower		
10	10-1400	Quartz Sleeve (Tower)		
	14-1051	Quartz Sleeve (Mini)		
11	10-2500	Black O-Ring		
12	10-2701	S/S Insert for Faucet		
13	N/A	Faucet HCA (3 hole)		
14	10-2600	Faucet O-Ring		
15	N/A	Nipple		
16	N/A	Faucet Gauze		
17	10-4029	Hot Tank with Heating Element 0.4 Gallon (1.5 Liter)		
18	10-7040	5/16" Silicone Tube		
19	N/A	5/16" Equal Tee		
20	12-1360	Thermal cut-out 220°F (105°C) Manual		

NOTE N/A = Customer Specific / Not Stocked for Resale.

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Executive Wetted Parts Illustration

Hot, Cold, and Ambient In-tank UV (AC120V)

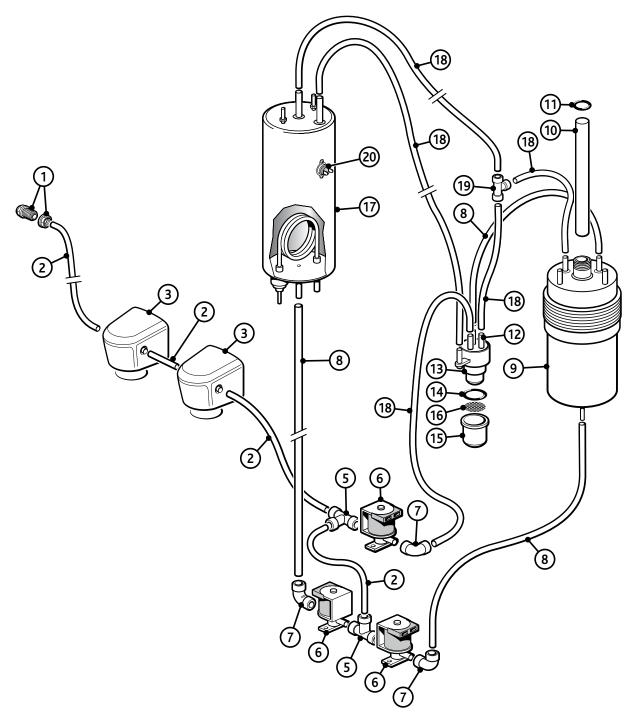


Figure 6. Wetted parts diagram

Cat No. 01021716 Executive Wetted Parts Illustration 27

Executive Main Parts List

In-tank UV (AC120V)

Item	Innowave Part Number	Description	
1	12-5200	Stand Side Panel Left	
2	12-5205	Display PCB H, C&A	
3	12-5210	Front Hatch Panel	
4	12-5215	Display Label Calligan	
5	12-5220	Silicon Button Keymat H, C & A	
6	12-5225	Drip Tray Body	
44	12-5230	Drip Tray Grill	
8	12-8050	Drip Tray Insert Panel	
8	12-5235	Faucet H, C & A	
9	12-5240	Front Down Insert Panel	
10	12-8052	Front Down Panel	
12	12-5245	Main PCB Bracket	
13	12-5250	Relay PCB	
14	12-5255	Filter Bracket	
15	12-1500	Solenoid Valve	
16	12-5260	Top Cover	
17	10-1300AT	UV Lamp Assembly	
18	12-1210	UV Lamp Retaining Nut	
19	10-2500	Quartz Sleeve O Ring	
20	10-1400	Quartz Sleeve	
21	12-5265	Power Transformer	
22	10-3010	CN UV Ballast	
23	12-8003	Upper Base	

Item	Innowave Part Number	Description		
24	10-4029	Hot Tank with Heater		
25	N/A	Hot Tank Insulation		
26		AFL Cold Tank		
27	N/A	Cold Tank EPS		
28	12-1001	Filter Dryer Domsetic		
29	10-2200	Compressor		
30	12-8004	Down Base		
31	12-5270	Rubber Feet		
32	12-5275	Stand Side Panel Right		
33	12-8102	FS Condenser		
34	12-8002	Stand Back Panel		
35	12-1101	Thermostat (Cold)		
36	10-3008	Switch (Red)		
37	12-1201	Fuse Holder & Fuse		
38	10-3013	Fuse		
39	10-3007	Power Cord USA		
40	10-4013	Socket with EMI Filter		
41	10-3067	1/4" x 1/4" Bulkhead Fitting		
42	12-1360	Thermal cut-out 220°F (105°C) - Manual		
43	12-5280	Culligan Filter Head		
44	12-5285	PCB Cover		

NOTE N/A = Customer Specific / Not Stocked for Resale.

28 Culligan® Executive Cooler Cat. No. 01021716

Executive Main Parts Illustration

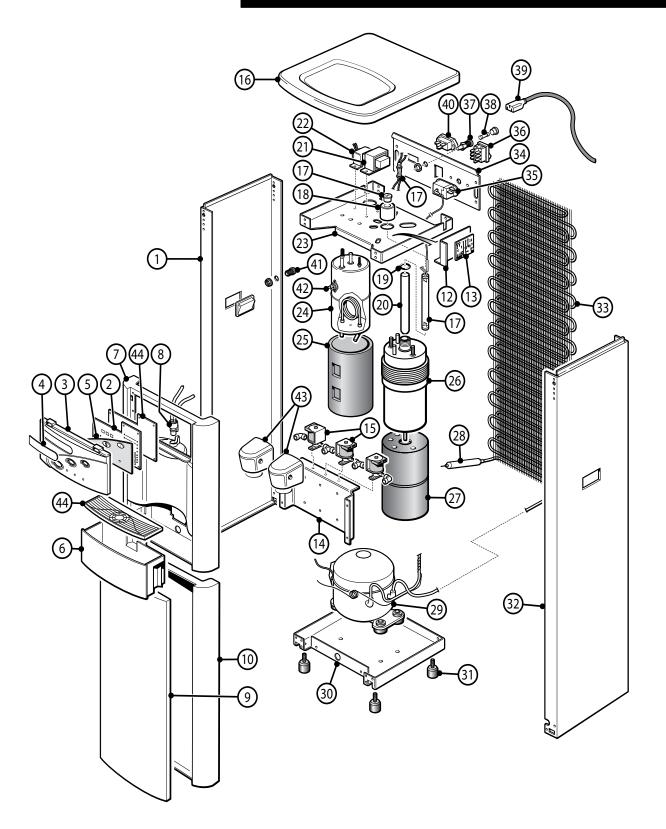


Figure 21. Executive model.

Single Head Manifold and Available Cartridges

Part Number	Description	Case quantity	
P1020392	Single Head for Cartridges	6	
SEDIMENT FILTERS			
P1020258	Sediment Filter - 5 micron	12	
P1020260	Sediment Filter - 10 micron	12	
P1020262	Sediment Filter - 25 micron	12	
CARBON FILTERS			
P1020266	Carbon Block Filter - 5 micron	12	
P1020274	Large Carbon Block - 10 micron	12	
P1020264	GAC Filter	12	
RO and NANO MEMBRANES	S		
P1020268	P1020268 RO Membrane - 36 GPD		
P1020270	RO Membrane - 50 GPD	12	
P1020271	P1020271 Nano Membrane		
CARBON POST FILTERS (u	sed after RO storage tanks)		
01000124	GAC Carbon Post Filter, 1/4" Tube	10	
00402807 GAC Carbon Post Filter, 1/4" Tube		50	
SPECIALITY CARTRIDGES	(used after RO membrane)		
P1020272	Arsenic Cartridge	6	
P1020273	Perchlorate Cartridge	6	
P1020274	P1020274 Total Defense (same as Large Carbon Block)		
PLUG and SANITIZATION P	ARTS		
P1020277	Sanitization Cartridge	6	
P1020279	By Pass Plug	12	

Other Part Numbers Referenced in this Manual

01010248 Adapter, 3/8" Stem x 1/4" Tube

01010332 Restrictor Assembly, LC 100 RO Head

P1021587 ASO (Automatic Shut Off Valve for RO Configurations)

P1021588 Check Valve, 1/4" Tube

01010098 Bypass Plug, Everpure Heads (For PS-250 and LC-100 Heads)

01021338 Plug, 3/8" Stem

01001142 Plug, 1/4" Stem

00403729 Connector, 1/4" Tube x 1/4" Tube

This page contains materials and DCO information. IT DOES NOT PRINT AS PART OF THE DOCUMENT!

Materials & Description: Aqua-Cleer CC Ultra Bottle-less Cooler

Size: 11" x 17" Booklet folded down to 8 1/2" x 11"

Color: Black, 2 Sided

Stock: 20# White
Other: Collate

Bookletmaker with 2 Saddlestich Staples

Standard 3 Hole Drill

Let	Change	Ву	Aprvd	DCO	Date
A ¹	New Art Created	KR			12/05/08
A ²	Copy Revisions	KR/AHB			12/19/08
A^3	Layout and copy revisions	JV/AHB			12/28/08
В	Layout and copy revisions	TF/JV			06/12/10