



OPERATOR MANUAL

IMPORTANT INFORMATION, KEEP FOR OPERATOR

888-994-7636, fax 888-864-7636
powersoak.com

THIS MANUAL MUST BE RETAINED FOR FUTURE REFERENCE. READ, UNDERSTAND AND FOLLOW THE INSTRUCTIONS AND WARNINGS CONTAINED IN THIS MANUAL.

NOTIFY CARRIER OF DAMAGE AT ONCE It is the responsibility of the consignee to inspect the container upon receipt of same and to determine the possibility of any damage, including concealed damage. Power Soak suggests that if you are suspicious of damage to make a notation on the delivery receipt. It will be the responsibility of the consignee to file a claim with the carrier. We recommend that you do so at once.

Manufacture Service/Questions 888-994-7636.

This manual provides information for:

PS-400 & PS-420 CONTROLS



INTRODUCTION AND CONVENTIONS

PRODUCT INTRODUCTION

Thank you for purchasing a Power Soak ware washing machine. Your new Power Soak pot, pan and utensil washing machine will provide years of dependable, efficient and trouble-free service. As a Power Soak owner, you will benefit in numerous ways:

Your ware washing operation will be more efficient.

Pots, pans and utensils will be cleaner.

The overall level of sanitation in your scullery area will improve.

Ware washing hours will decrease as employee morale increases.

Chemical and water usage will decrease.

Every machine is manufactured to last, with only high-quality, heavy-duty, 14-gauge stainless steel used in its construction. All electrical components used in a Power Soak machine are of the highest quality. The faucets and drains are designed for quick filling and emptying of the machine's tanks. At Power Soak, we take pride in manufacturing the Power Soak line and are committed to standing behind our customers and products 100%. Should you ever need assistance, please contact us directly at the factory by dialing 888-994-7636 or fax: 601-371-9732.

EXPLANATION OF WARNING MESSAGES

Read, understand and follow all DANGER, WARNING, and CAUTION messages located in this guide and on the equipment.



Personal Injury and Property Damage Hazard Will result in serious injury or death. Will cause extensive equipment damage.



Property Damage Hazard Will result in property or equipment damage.



Chemical Hazard Will result in serious injury or death. Instructions, labels and Material Safety Data Sheets (MSDSs) should be supplied with all detergents and sanitizing chemicals. The manufacturers, importers and distributors of the cleaning chemicals are responsible for providing this information.



Personal Injury Hazard Hazard from sharp objects, scalding, falling and/or drowning. Will result in serious injury or death.



Personal Injury Hazard HOT WATER! Wash sink water can exceed 120°F (49°C). Wear personal protective equipment to avoid scalding or burns.



Personal Injury Hazard To avoid damaging your Power Soak or risking personal injury, avoid washing small objects (such as spoons, forks, towels, scrub pads, or brushes...etc.) unless they are placed in the utensil basket or the designated utensil area of the AWI.

Children must not be allowed to play in the sinks, on countertops or with the controls of the Power Soak equipment. Cleaning or use of this machine must not be done by children without supervision. This machine can be used by children aged 8 years or above and by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they are given supervision and instruction concerning use of the appliance in a safe way and understand the hazards involved. There is a potential of drowning for any person whose head becomes submerged in the fluid contained in the sinks along with other hazards identified in this manual.

REQUIREMENTS FOR DETERGENTS AND SANITIZERS



THE POWER SOAK REQUIRES A LOW FOAMING DETERGENT THAT IS SAFE FOR HUMAN HANDS. THE DETERGENT SHOULD HAVE GOOD GREASE CUTTING ABILITIES BUT NOT HAVE AN EXCESSIVELY HIGH OR LOW PH LEVEL. A METAL/ALUMINUM-SAFE FORMULATION IS RECOMMENDED. CONSULT A CHEMICAL PROVIDER FOR A SUITABLE DEEP CLEANING CHEMICAL.

Detergents

Power Soaks can use two types of detergents, one for "Normal Cleaning" and one for "Deep Cleaning" for more effective deep cleaning. The materials to be cleaned and the type of debris to be removed will be a factor in selecting the proper detergent. Provide this information to a chemical supplier when selecting the type of detergent. Use of the correct detergent in the Power Soak machine is critical to its washing performance. Improper detergents could damage the equipment. If there are problems with cleaning results, please contact the Power Soak service department 888-994-7636.

Sanitizers

The method of sanitizing used in the Power Soak PS-400 is a “chemical sanitizing” method. There are several products on the market that work well in this application. A chemical sales representative should assist in selecting the proper sanitizer. Ask the cleaning chemical provider to determine detergent concentration, sanitizer “parts per million” (ppm) and sanitizer submersion times to meet local health codes.

Power Soak Service Assistance

If a chemical sales representative is having difficulty selecting a detergent or sanitizer, or if there are poor results with the chemicals that a representative has recommended, please contact Power Soak at 888-994-7636.

CONTROL FEATURES

APPLICATION LOADING SCREEN



Application Loading screen appears with Power Soak Logo, once power is provided to the unit. The progress bar will be white during loading. After fully loaded, screen changes to

1. Select wash cycle screen if unit has a Deep Clean Wash option for PS-420, or
2. Standard Wash Cycle screen for PS-400.

NOTE: It may Takes few minutes to complete Loading.

PS-420 SELECT WASH CYCLE SCREEN



After application loading is complete, the select wash cycle screen appears with two options:

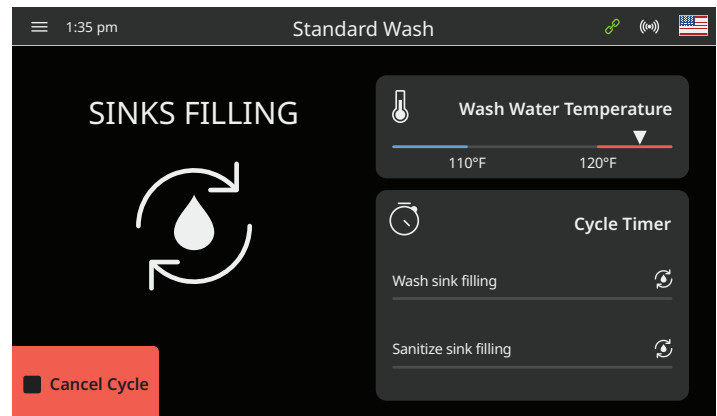
1. Standard Wash
2. Deep Clean Wash

PS-400 STANDARD WASH CYCLE - PREPARE SINKS SCREEN



After application loading screen, screen move to Standard Wash Cycle - Prepare Sinks screen. It instructs user to Close drains and fill sinks.

WASH CYCLE FILLING SCREEN



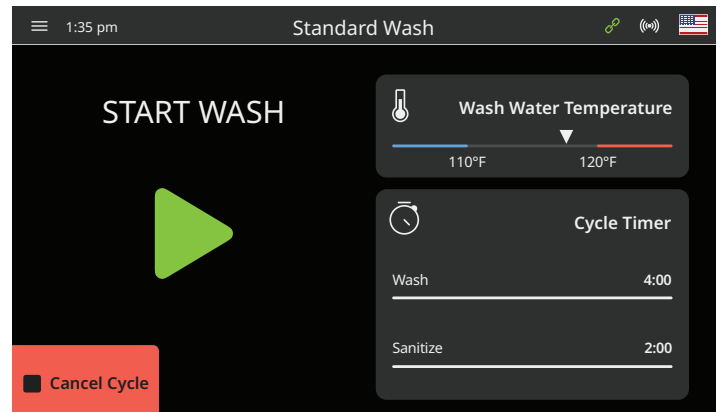
When the low-level sensor in the wash sink is reached, the close drains and fill sinks screen is replaced by a Sinks are Filling and a temperature reading of the wash sink.

NOTE: The temp display will not be available for models with no heater option.

NOTE: When wash water temperature is above set limits, the user will be instructed to reduce the temperature of the water by adding more cold water. If the water is too hot, the unit will not start.

1. Standard Wash - max temp is 115°F / 46°C
2. Deep Clean Wash - max temp is 128°F / 53°C

STANDARD WASH CYCLE START WASH SCREEN



When the full-level sensor is reached in the wash sink, the start screen displays the cycle time and temperature for the filled wash sink and the start button becomes available. If the sanitize sink has not reached the full-level sensor the display will indicate the sanitize sink is filling, this will change to the set cycle time for the sanitize sink once the full-level sensor is reached.

NOTE: Sanitize sink information will not be available, if only wash sink option is selected or no sanitize sink connections available.

DEEP CLEAN WASH CYCLE START WASH SCREEN



When the full-level sensor is reached in the wash sink, the start screen displays the cycle time and temperature for the filled wash sink and the start button becomes available. No sanitize sink time display available for this Wash cycle.

WASH AND SANITIZE CYCLES RUNNING SCREEN



When the user touches the start button, this screen appears. This screen displays the temperature of the wash sink and the amount of time remaining for the wash and the sanitize sinks. When either of the cycles are nearing completion, the time for that sink will change from white to yellow, and when the time has expired for either of the sinks, the time for that sink turns red and the cycle time indicates how much time has passed since the time expired.

Note: The temp display will not be available for models with no heater option.

END OF SANITIZE CYCLE SCREEN



When the time has expired for the sanitize sink, the display in line with the Sanitize Sink will read Drain & Refill. Once the time for the sanitize sink expires the time turns red, and the cycle time indicates how much time has passed since the expiration time. When the user opens the drain and the low-level sensor is no longer reading water,

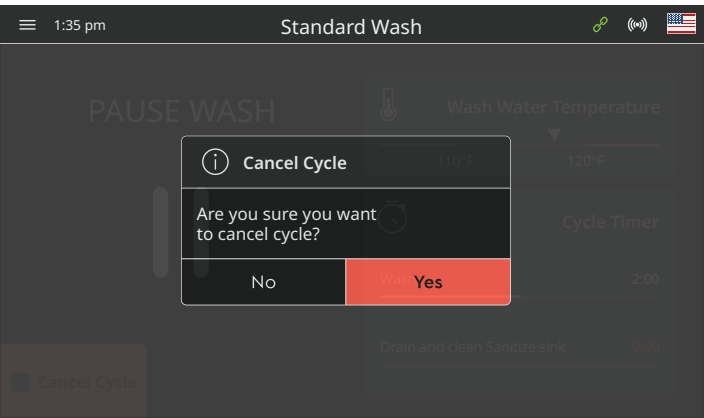
the display for the sanitize sink will change to sink filling. Once the full-level sensor is reached the display changes to show the sanitize sink as running and will immediately begin a new cycle time.

END OF WASH CYCLE SCREEN



When the wash cycle time has expired, the screen changes to open drains and clean sinks. (This should be done with all three sinks.) When the low-level sensor is clear of water in both the wash and sanitize sinks, the screen changes to the Standard Filling Screen (see above). This allows the user to run another wash cycle, if desired.

CANCEL CYCLE SCREEN



When the user presses the Cancel Cycle button a pop-up button asks the user to confirm they want to Cancel the wash cycle. If the user presses no, the unit continues to run. If the user presses yes, the screen changes to open drains and clean sinks. (This should be done with all three sinks.) When the low-level sensor is clear of water in both the wash and sanitize sinks, the screen changes to the Prepare Sinks Screen for PS-400 or select Wash Cycle screen for PS-420. This allows the user to run another wash cycle, if desired.

CONTROL BUTTONS

START BUTTON



The Start button is an arrow pointing right. It is displayed on the left-hand side of the wash cycle screen. The Start button is greyed out and turns green once the full level sensor detects water. It is used to start the wash action as well as the wash and sanitize cycle timers.

PAUSE BUTTON



The Pause Wash button is two vertical lines in white and replaces the Start button once the Start button is touched. Touching the Pause button results in the wash action stopping while the wash and sanitize cycle timers continue to run.

CANCEL CYCLE BUTTON



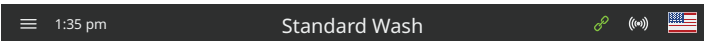
The Cancel Cycle button is a rectangle red box containing a black square symbol and Cancel Cycle text. It is displayed in the lower left-hand corner of the screen and appears once the low-level sensor is reached during the filling process. Touching the Cancel Cycle button results in a pop-up asking the user if they want to cancel the wash cycle. Confirmation of this touch results in stopping of the wash action and the wash and sanitize cycle timers and brings up a screen instructing the user to drain and clean all sinks.

MENU BUTTON



The Menu button is three horizontal lines in the upper left corner next to the time display. It is used to select and change various settings.

LANGUAGE BUTTON



The Language button is a flag representing that language in the upper right corner. It is used to change the language of the displays.

PREPARING THE MACHINE



BE SURE TO ADJUST KNOBS ON THE SPRAY RINSE AND ALL WATER FAUCETS SO THAT THE WATER TEMPERATURE IS BELOW 120°F (49°C). TEMPERATURES HIGHER THAN WHAT IS RECOMMENDED CAN CAUSE SCALDING OR BURNS IF CONTACT IS MADE WITH A PERSON'S SKIN.

FILLING THE MACHINE

At the beginning of each day, shift or each wash cycle, fill the tanks with water that is metered to approximately the correct operating temperatures:

- Wash tank (115°F / 48°C)
- Rinse tank (75°F / 24°C) – For Dip Rinsing Method
- Sanitizer tank (75°F / 24°C)

All tanks should be filled to the “waterline” mark that is located in each wash and sanitize tank. Do not overfill the tanks; overfilling will cause the tanks to overflow when items are added.



CHEMICALS THAT ARE SAFE TO TOUCH WHEN MIXED WITH WATER CAN BE DANGEROUS TO TOUCH IN THE CONCENTRATED FORM. USE CHEMICAL RESISTANT GLOVES AND PROTECTIVE CLOTHING WHEN HANDLING CONCENTRATED CHEMICALS. CONSULT THE MANUFACTURERS LABEL FOR HANDLING AND SAFETY INFORMATION.

WASH FLUID

The method used to fill the wash tank (the wash tank contains the water jets) will vary depending on how the chemicals are dispensed. The following descriptions will describe the methods for filling and adding chemicals to the wash tank.

Direct Dispensing: Fill the wash tank using the faucet with water that is approximately 115°F / 48°C prior to adding chemicals. The hot and cold taps on the faucet are used to adjust the water to the appropriate temperature. A good rule of thumb is that the water should be hot to touch but not so hot that it is uncomfortable. When the tank is full, the chemical can be manually added to the water when the wash pump has been started. Never place concentrated chemicals into an empty tank. If the machine is equipped with the Power Soak Chemical Dispensing system, the control system of the machine will dispense the chemical when the wash pump is started. If your wash sink has dual waterlines, fill to the upper waterline when washing sheet pans held in racks and to the lower waterline for all other purposes.

Metered or Pre-Mixed Dispensing: If the machine is filled using a metered chemical dispensing system the introduced water temperature should be approximately 115°F / 48°C. The hot and cold taps on the faucet can be used to adjust the water to the appropriate temperature. Some machines are supplied with a set of mixing valves that pre-mix the water to the correct temperature. The temperature adjustments for these valves are located on the front of the valve. When using a dispensing system, do not add water using the faucet. Water that is added by a source other than the mixing system will dilute the chemical solution and reduce its effectiveness.

RINSE WATER

Submersion Rinsing: If the wares are to be rinsed by submersing them in fresh water, fill the rinse tank (middle tank) with water that is approximately room temperature, 75°F/24°C. The hot and cold taps on the faucet are used to adjust the water to the appropriate temperature. Drain and refill this tank as necessary to maintain clean water in the tank.

Spray Rinsing: When using the faucet or handheld spray nozzle to rinse the wares, leave the wash tank empty, with the drain open.

SANITIZER WATER

Direct Dispensing: Fill the sanitizing tank using the faucet with water that is approximately 75°F / 24°C prior to adding chemicals. The hot and cold taps on the faucet are used to adjust the water to the appropriate temperature. When the tank is full, the chemical can be manually added to the water. Never add concentrated chemicals into an empty tank. If the machine is equipped with the Power Soak Chemical Dispensing system, the control system of the machine will dispense the chemical when the wash pump is started.

Metered or Pre-Mixed Dispensing: If the machine is filled using a metered chemical dispensing system the introduced water temperatures should be approximately 75°F / 24°C. The hot and cold taps on the faucet can be used to adjust the water to the appropriate temperature. Some machines are supplied with a set of mixing valves that pre-mix the water to the correct temperature. The temperature adjustments for these valves are located on the front of the valve. When using a dispensing system, do not add water using the faucet. Water that is added by a source other than the mixing system will dilute the sanitizing solution which will reduce its effectiveness and violate health codes.

MANUALLY ADDING DETERGENTS & SANITIZERS

After the tanks have been filled with water, add the proper amount of detergent and sanitizer. The detergent goes into the wash tank (the tank with the water jets) and the sanitizer goes into the sanitizer tank (the tank is furthest from the wash tank).

It is important to add the proper amount of chemicals to each tank. The amount to be used should be provided by the chemical supplier. Do not add the detergent or sanitizer to the tank prior to or during filling.

Most detergents and sanitizers lose effectiveness as time goes on. Some local health departments have requirements limiting the amount of time water can be used for cleaning before the water must be changed. Most chemical companies recommend changing wash water after a certain time frame. Those times vary but are generally around two to four hours. Check with the chemical provider for recommended time for effective use.

Sanitizing solutions also have a limited safe use period. Check with the chemical provider on how often to check and or replace the sanitizing fluid.

Acceptable Normal Wash Chemicals:

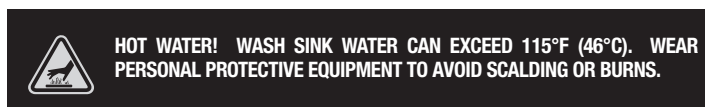
- Chemicals must be safe for contact with human skin.
- The detergent must be low foaming; not excessively caustic and metal/aluminum safe are recommended.
- Cleaning solutions need to be selected for the type materials to be cleaned.
- Most standard sanitizers can be used with the PS-400, however; consult with a chemical provider to be sure the chemical that is selected is a good choice.

Deep Cleaning Chemicals:

- Solid or liquid
- Matched to PPE of your company's specifications.
- Consult with a chemical representative for proper PPE instructions.

OPERATING THE POWER SOAK

STARTING AND STOPPING THE WASH ACTION



Start the Wash Action

Touch the green START button on the screen. As the unit starts up, a strong “rolling” action should become present in the wash sink. When the wash cycle button is touched, the green start button is replaced with a white PAUSE button, the wash status displays Running, the timer starts counting down the time to drain and clean the sink, and the wash sink temperature continues to display.

NOTE: The temp display will not be available for models with no heater option

Pause the Wash Action

Press the PAUSE WASH button. After the button is pressed, it changes to the START WASH button. Timers do not pause when the PAUSE WASH button is pressed. Pause button stops the wash tank motor and heater. When the start button is pressed, the heater will run based on the temperature set point and wash tank motor also runs. After a period of 60 minutes, the screen moves to Drain sinks screen.

Reset the Wash Cycle

1. **During running**, open the drain and let the water drain during wash cycle. Once water goes below low probe the unit resets back to prepare sinks screen, for PS 400. or home screen in PS 420 model.
2. **At end of wash cycle**, if unit is struck at drain sink screen, wait for 20 mins. A “Empty Sink” pop-up appears with yes and no Option. Select yes to reset the wash cycle.
3. **At any time**, open the drain and let the water drain. Once water goes below low probe the unit resets back to prepare sinks screen, for PS 400. or home screen in PS 420 model.

Staring Wash Cycle with Bad Fill Probe

If the water is filled to the fill line, but the play button is not active, then hit the play button. A “Fill Line” pop-up appears with yes and no Option. Select yes to start the wash cycle.

Introducing Pots and Pans to the Power Soak

Dirty pots and pans should be brought to the Power Soak in a timely manner. Do not allow items to sit and air dry. The quicker the item is brought to the Power Soak, rinsed, and put into the wash sink, the easier it is to clean!

Properly Scrapping Pots and Pans

Excess debris should be removed from the pots and pans prior to dropping them in the wash sink to reduce debris circulating in the wash sink. Deposit the excess debris into a garbage can. Some machines may have an optional pre-scrapping area with a pre-rinse spray; debris may be deposited into the scrap tray. Empty the scrap collection tray regularly.

LOADING AND USING THE WASH TANK



HOT WATER! WASH SINK WATER CAN EXCEED 115°F (46°C). WEAR PERSONAL PROTECTIVE EQUIPMENT TO AVOID SCALDING OR BURNS.



WARES TUMBLING IN THE POWER SOAK WASH SINK MAY SPLASH FLUID FROM THE SINK CREATING A WET FLOOR IN FRONT OF THE POWER SOAK WASH SINK. BE AWARE THAT A WET FLOOR MAY CAUSE A PERSON TO FALL RESULTING IN SERIOUS INJURY OR DEATH.

DO NOT ATTEMPT TO OCCUPY ANY OF THE SINKS ON THE MACHINE. BE CAUTIOUS NOT TO FALL INTO ANY OF THE SINKS ON THE MACHINE. THE FLUID DEPTH IS SUFFICIENT FOR A PERSON'S HEAD TO BECOME SUBMERGED AND CAUSE A DROWNING DEATH.

The Power Soak is a “random loading” machine. This means that Power Soak items are not racked for washing. Instead, they are randomly loaded one at a time and circulate in the wash tank. When items are brought to the machine and the scraps removed, they should be immediately dropped into the wash tank. The Power Soak is a “continuous motion” machine, meaning that the machine does not operate on a set cycle time like a cabinet-type washing machine.

During normal operating hours where washing is required, the machine is (normally) left running. The Power Soak is energy efficient, and it does not cause excessive wear to leave it running continuously. Typically, it takes between three to fifteen minutes to wash items. Some heavily soiled or burnt-on items may take longer to clean and should be allowed to circulate in the wash tank until they are clean.

Overloading

If there is no movement of items in the wash tank, or if items are stationary above the waterline, the machine has been overloaded, and some items must be removed. It is very important not to overload the wash tank as it reduces the effectiveness of the wash action.

Nesting

Some pots and pans stack for storage. This is referred to as “nesting” when it occurs during a Power Soak wash cycle. Make sure that nested items are separated and loaded one at a time. Nested items in the wash tank will not be properly washed.

Loading and Washing Utensils

Power Soak unit comes with a utensil area that is a 6" section area (optional) within the wash sink or a basket that hangs on the wash sink. All utensils and other small wares should be loaded into and washed inside this area or basket.

Do not place knives or other sharp objects in the Power Soak. Allowing knives or other sharp objects to tumble freely in the Power Soak sink may cause bodily injury.

Knives and other sharp objects must be washed by hand with the pump motor turned off. Wash, rinse and sanitize the knife or sharp object, without letting go of the item and immediately place the item into proper storage.

A fully loaded basket can be very heavy. Unload the basket prior to lifting the basket out of the sink. Do not attempt to lift a fully loaded utensil basket. Attempting to lift a fully loaded utensil basket can cause muscle strain.

Rinsing Pots and Pans

Clean items that have been removed from the wash sink or utensil area should be thoroughly rinsed. This is achieved by spraying them off or dipping them in the (center) rinse sink. It is important that any remaining detergent residue is removed from the items prior to sanitizing. If items are rinsed by the "dipping" method, it is important to keep the water "fresh" by frequently draining and filling the rinse sink.

Sanitizing Pots and Pans

After items have been properly rinsed, they must be sanitized in the sanitize sink. It is necessary for each item to remain submersed in a correctly titrated sanitizing solution for a specific amount of time. The amount of time varies according to the type of sanitizer being used and local health codes. Be sure to follow your chemical sales representative's instructions to ensure that all items are properly sanitized.

Drying Pots and Pans

Sanitized items should be thoroughly dried on a clean drain board or on adjacent drying shelves. Be sure to adhere to all local health codes and recommendations for proper drying and stacking of items.

DEEP CLEANING AND "NIGHT WASHING"



HOT WATER! WASH SINK WATER CAN EXCEED 128°F (53°C). WEAR PERSONAL PROTECTIVE EQUIPMENT TO AVOID SCALDING OR BURNS.



DO NOT ATTEMPT TO OCCUPY ANY OF THE SINKS ON THE POWER SOAK MACHINE. BE CAUTIOUS NOT TO FALL INTO ANY OF THE SINKS ON THE POWER SOAK MACHINE. THE FLUID DEPTH IS SUFFICIENT FOR A PERSON'S HEAD TO BE SUBMERGED AND CAUSE A DROWNING DEATH

The Power Soak can be used as a "total cleaning system". Any item in the operation that can be submersed for cleaning and is not fragile or sharp can be washed in the Power Soak. Extremely soiled items and pieces of cooking equipment that require regular, intensive cleaning can be washed in the Power Soak machine overnight.

These are some examples of items that are typically deep-cleaned overnight in the "Night Wash" cycle:

- Hood Filters
- Roasting Pans
- Stove Tops
- Frying Equipment
- Stockpots
- Carbonized items
- Soiled storage racks

Many other items in the operation may qualify. Be creative and set up a regular "Night Wash" program for improved sanitation. Items that have been cleaned overnight should be removed, rinsed, sanitized (if necessary) and put away or back in place. Sanitation supervisors should establish standard operating procedures

for items to be cleaned using the Night Washing feature of the Power Soak.

Deep Cleaning Mode

The Deep Cleaning Mode can be activated only for PS-420 from Select wash cycle screen. The wash sink should be filled to the fill line and pressing the Play button will start the wash pump motor.

When the pump motor starts in the Deep Cleaning Mode, no sanitizer sink timing will be displayed.

The Deep Cleaning Mode will elevate the water temperature to 128°F / 53°C which is higher than the normal daytime wash temperature (115°F / 48°C). Water is hot enough to cause scalding or burns. Personal protective equipment are to be used to avoid scalding or burns when the water temperature is above 120°F / 49°C.

A different chemical may be beneficial for the deep cleaning cycle, see a chemical supplier for recommendations on the type of chemical to use for this type of operation. Solid or liquid chemicals can be used in the Power Soak.

Since different chemicals are commonly used during the "Normal" daytime operation and the "Deep Clean Mode", the programming will not allow the mode of operation to be changed until the wash tank is completely drained and refilled.

The Deep Cleaning Mode will run the pump motor continuously for two hours. At the end of the two hour cleaning period the pump will stop continuous operation and start an intermittent cycle, ON for 5 minutes and OFF for 10 minutes. Since the heating element only operates while the pump motor is running, the cleaning solution temperature will be allowed to cool down according to the program setting, no lower than 110°F (43°C). The pump motor can be stopped and started anytime during the 5-minute on cycle of the Deep Clean Mode, by pressing the Pause button and play button from the screen.

Please note: User can not pause or start pump motor while it is hibernation or the 10-minute off cycle.

Changing the Wash Solution

The wash solution will need to be drained and refilled every four hours. The control program will keep track of this time. When wash cycle reaches 00:15 (15 minutes), countdown and progress bar change to yellow and message changes to Wash nearing completion. When wash cycle reaches 00:00, count stops, motor and heater stop, screen changes to Deep Clean Wash Cycle - Prepare Sink / Complete. Screen is displayed until the low-level sensor breaks in wash sink. When low level sensor breaks in the wash sink, screen changes to Choose Cycle Mode.

Changing Sanitize Water

In most cases, the sanitizer water will need to be drained and refilled every two hours. In some situations, a chemical provider and local codes allow a longer change interval. When the sanitize sink is filled the sanitize sink timer starts. The timer will change from white to yellow 15 minutes before the timer expires. When the timer runs out of time, the timer will change from yellow to red and starts to display the amount of time past the expiration time.

It is at this time the user is prompted to drain and refill the sink. The user will need to completely drain the sanitize sink and then refill the sink following the steps done at start up for the sanitize sink.

Do not attempt to occupy any of the sinks on the Power Soak machine. Be cautious not to fall into any of the sinks on the Power Soak machine. The fluid depth is sufficient for a person's head to be submerged and cause a drowning death

Wash, Rinse, and Sanitize Sink Clean-up

The wash solution will need to be drained and refilled every four hours. The controller will keep track of this time. The timer will change from white to yellow 15 minutes before the wash sink timer expires. When the timer runs out of time, the timer will change from yellow to red and starts to display the amount of time past the expiration time.

At the end of each wash cycle, all sinks and drain boards should be drained and thoroughly cleaned with hot, soapy water.

It is also recommended to wipe down all the sinks and drain boards with a sanitizing agent. Ask your chemical provider to recommend a sanitizer for this application.

PREVENTATIVE MAINTENANCE



IF THE LIQUID LEVEL SENSORS ARE NOT CLEANED REGULARLY, THE MACHINE MAY FAIL TO OPERATE; OR IT MAY BE POSSIBLE TO RUN IT WITHOUT WATER, WHICH WILL CAUSE SERIOUS DAMAGE TO THE UNIT.

Your Power Soak unit requires minimal, routine preventative maintenance. As such, the following should be done on a routine basis to ensure that your unit remains reliable:

DAILY

Clean the liquid level sensors that are located on the side walls of the wash and sanitizer tanks. They are white plastic discs with metal centers. Clean the sensor faces thoroughly. If cleaned regularly, a washcloth and soapy water are all that is required.



IMPORTANT: TURN OFF THE POWER TO THE POWER SOAK UNIT AT THE MAIN BREAKER PRIOR TO PERFORMING THE FOLLOWING TASK!

MONTHLY

Clean the pump motor fan shroud with a damp, soapy cloth. The motor shroud is the “vented” cover located at the end of the motor (closest to the control panel). This will prevent grease and dust from accumulating in the cover’s openings, which can obstruct the airflow that cools the motor.

NOTE: The motor bearings are permanently sealed and do not need to be greased.

AS NEEDED

De-lime the wash sink. Simply add a recommended titration of de-liming agent to a sink of warm, fresh water and run the unit overnight. Ask your chemical sales representative to recommend a specific de-liming agent

TROUBLESHOOTING

DEFINITION OF RESPONSIBILITIES

Facility Owner/Manager Section

The Power Soak control is set up to provide the user/owner/manager with all the feedback required to resolve all issues that do not require a service agent by following the prompts on the screen. If the prompts do not resolve the issue(s), then an authorized service agency will need to be contacted. To obtain the name of a recommended service agent in your area, please call the Power Soak service department at 888-994-7636.

If the wash action is not starting:

- Check to make sure the main electrical power breaker for the Power Soak machine is in the “ON” position.
- See that the wash tank is filled to the waterline.
- Examine the liquid level sensors to see that they are clean and free of any debris or grease. The liquid level sensors are located on the side walls of the wash and sanitizer tanks (the white plastic disc with a metal center).
- Make sure the temperature of the water in the wash tank is below 128°F.

AUTHORIZED SERVICE AGENCY SECTION



THERE ARE HAZARDS TO UNTRAINED OR UNAUTHORIZED PERSONNEL, THE FOLLOWING PROCEDURES PROVIDED FOR USE ONLY BY AN AUTHORIZED SERVICE AGENCY. NO FACILITY OWNER, MANAGER, EMPLOYEE, OR OTHER UNAUTHORIZED PERSON SHOULD ATTEMPT TO PERFORM ANY OF THESE PROCEDURES. TO OBTAIN THE NAME OF A RECOMMENDED SERVICE AGENT IN YOUR AREA, PLEASE CALL THE POWER SOAK SERVICE DEPARTMENT ON 888-994-7636.



WHEN PERFORMING TROUBLESHOOTING PROCEDURES, THE AUTHORIZED SERVICE AGENCY WILL NEED TO OPEN THE POWER SOAK MACHINE’S MAIN ELECTRICAL ENCLOSURE COVER.

THE COVER TO THE ENCLOSURE MUST BE PROPERLY CLOSED BEFORE RECONNECTING THE POWER TO THE MACHINE.

REFER TO THE PREVIOUS CHECK LIST UNDER THE “FACILITY OWNER/MANAGER SECTION” BEFORE PROCEEDING TO THE FOLLOWING:

Wash Pump/Heater Will Not Operate – verify power is on, if not check the following

- Liquid Level in wash
- Main power supply circuit breaker.
- Fuse inside the control Enclosure
- Bi-metallic Switch for water temperature (closed if water is below 120°F/49°C)
- Bi-metallic Switch for motor temperature (closed if motor is below 150°F/66°C)
- Bi-metallic disc switch for water temperature (switch must be closed if water temperature is below 120°F).
- Bi-metallic disc switch for motor temperature (switch must be closed if motor temperature is below 150°F).
- Check to see that the screen is moving to the fill screen when the wash sink is filled to the waterline.

To Test the Fill Level Sensors in the Sanitize Sinks

Start the unit before filling the sanitize sink, the timer for the sanitize sink on the display screen will show the time allowed for the sanitize sink. When the sanitize sink is filled and reaches the Full Level Sensor the time on the display screen will start running, counting down for the specified start time.

If timer on the display screen does not start counting down:

- Clean the Full Level Sensor as described in the “Preventive Maintenance” section of this manual.
- Be sure that all connections to and from the Full and Filling Level Sensors are secure and that there is no physical damage to the wiring.

If there appears to be damage to connectors and/or wiring, contact Power Soak at 888-994-7636.

If the above troubleshooting guidelines do not correct the problem, it is necessary to contact Power Soak at 888-994-7636.

If you see any error codes with respect to voltage, it can be cleared by turning the power to the machine off for a few seconds and then turning it back on.

Please have the “Error Code” information available prior to calling Power Soak Systems. The machine serial number will also be needed at the time of the call.

The serial number is 5-6 digits long and located on the lower corner of the wash tank closest to the controller.

INSTALLATION



THE INSTALLATION AND INITIAL OPERATIONAL CHECK OF THE POWER SOAK MUST BE PERFORMED BY LICENSED AND CERTIFIED PLUMBERS AND ELECTRICIANS.



BE SURE TO FOLLOW ALL APPLICABLE NATIONAL AND LOCAL ELECTRICAL CODES WHEN INSTALLING THE ELECTRICAL SUPPLY AND/OR A NEW BREAKER. DO NOT CONNECT THE SYSTEM USING A POWER CORD AND PLUG OR AN EXTENSION CORD OF ANY KIND.

Please refer to the detailed installation instructions that were sent with your Power Soak unit.

ELECTRICAL REQUIREMENTS

The electrical requirements of your new unit are on the serial number plate located on the front corner of the wash sink, adjacent to the control panel enclosure and inside the enclosure itself.

All Power Soak units have a single point electrical connection, and a dedicated circuit is required. A 3/4" seal tight conduct knock out on the rear of the control panel is provided.

The unit is completely pre-wired and tested at the factory, and a hard-wired connection from an appropriate power source junction box is all that is required.

The installer is responsible for providing a disconnect that is incorporated into the fixed wiring. Note: In areas where the walls are washed this should be a waterproof style disconnect.

Properly sized watertight conduit fittings and parts are required, as well as the appropriate gauge wire.

If your unit is a "left-to-right" unit, you should locate the power source junction box at the left end of the unit. (The opposite would be true for a "right-to-left" unit.)

Ideally, the junction box should be located on the wall directly behind the pump motor and control panel.

If the unit requires 3 phase power, the motor rotation can be tested by holding down the start button for 10 seconds, with no water in the unit. This will bump the motor. Verify the motor rotation matches the arrow on the pump housing.

An equipotential bonding terminal is provided on the side of the wash sink and identified with the symbol shown to the left. This terminal is used to make a connection for properly grounding the machine. This connection must be completed by a qualified electrical technician.



A wiring diagram is in the unit's control panel enclosure. Specific part numbers and part information can be obtained from the factory by calling 888-994-7636.

PLUMBING REQUIREMENTS

Your unit requires the following plumbing connections:

- 3/4" (19mm) or 1/2" (12 mm) hot and cold-water supply lines.
- One wastewater connection (minimum 1-1/2" (38mm)).
- A 3" (75mm) connection is recommended for an in-floor main line.

The Rear Exit Drains supplied have a female 1-1/2" connection.

DO NOT USE HOSES to make the pressure connections to the faucets.

- Maximum water inlet pressure is not to exceed 125 psi (8.6 Bar).
- Minimum water pressure to be not less than 20 psi (1.2 Bar).

DECOMMISSIONING

When it is time to decommission the Power Soak Unit the components of the machine are to be recycled. The electrical control panel and motor have materials that must not be discarded into common trash disposal. Dispose of the control panel contents and the motor through a proper waste electrical and electronic source or return the contents and the motor to the source where the Power Soak Unit was purchased.

The metal in the sinks and control panel enclosure has value in the recycled metals market. The owner of the Power Soak Unit can recover this value by directly contacting a metal recycling facility and planning for recycling of the metal.

If any or all the unit is returned to the source where it was purchased, there will be no obligation for the Power Soak representative to make any compensation for the returned materials.

Service Log

Model No:	Purchased From:
Serial No:	Location:
Date Purchased:	Date Installed:
Purchase Order No:	For Service Call:

[illegible]