



OPERATOR MANUAL

IMPORTANT INFORMATION, KEEP FOR OPERATOR

888-994-7636, fax 888-864-7636
unifiedbrands.net

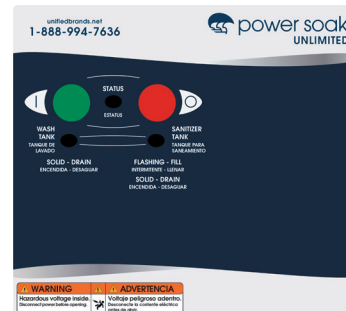
THIS MANUAL MUST BE RETAINED FOR FUTURE REFERENCE. READ, UNDERSTAND AND FOLLOW THE INSTRUCTIONS AND WARNINGS CONTAINED IN THIS MANUAL.

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-200



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 PS-200 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 FORMULA IS RECOMMENDED. CONSULT A CHEMICAL PROVIDER FOR A SUITABLE DEEP CLEANING CHEMICAL.

Detergents

The PS-200 can use two types of detergents, one type for normal cleaning and one type 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.

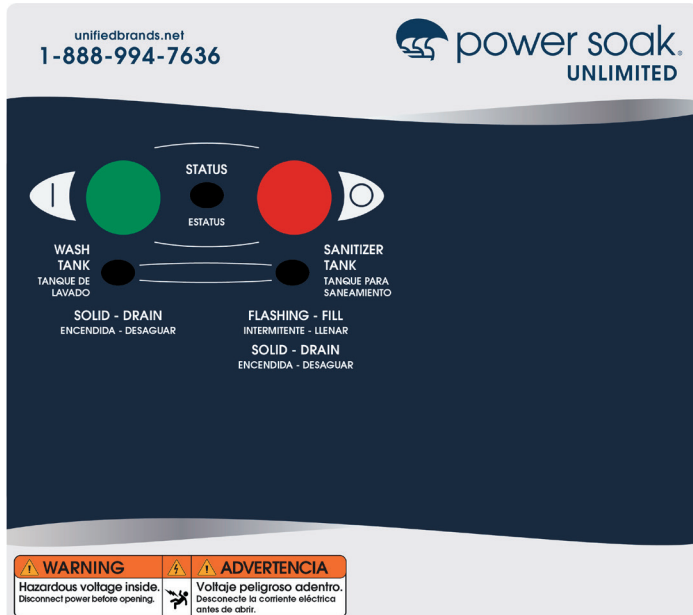
Sanitizers

The method of sanitizing used in the Power Soak PS-200 is a “chemical sanitizing” method. There are a number of 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



The illustration shows the PS-200 Control Panel Overlay. The overlay is adhered to the front of the control panel box and contains buttons and lights that are imbedded into the overlay. Communication with the UPM is accomplished with cables that extend from the back side of the overlay.

CONTROL PANEL & FEATURES

Green Button Starts the washing action. If cycle does not start, refer to trouble shooting section.

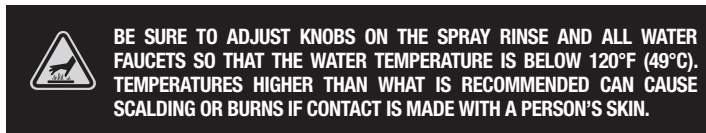
Red Button Stops the wash action.

Green Light Slow Flashing – “POWER ON” – The Power Soak system is energized and ready to fill. Solid Illumination – “RUNNING” – wash sink is full, system is running. (Will not become solid until after start button is pushed.)

Blue Light Solid Illumination – “CHANGE WASH WATER” – after a standard four hour wash cycle, the system becomes disabled and the wash sink must be drained and refilled.

Red Light Slow Flashing – “FILL SANITIZER TANK”. Solid Illumination – “CHANGE SANITIZER SOLUTION” – after two hours, the sanitizer sink must be drained and refilled.

PREPARING THE MACHINE



Filling the Machine

The STATUS light will flash indicating that the unit is powered and waiting to be started. At the beginning of each day or shift, 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)
- Sanitizer tank (75°F / 24°C)

All tanks should be filled to, but not above, the “waterline” marks. 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. 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.



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.

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 hand held 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 place concentrated chemicals into an empty tank.

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 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-200, however; consult with a chemical provider to be sure the chemical that is selected is a good choice.

OPERATING THE POWER SOAK

Starting and Stopping the Wash Action



HOT WATER! WASH SINK WATER CAN EXCEED 120°F (49°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 SLIP AND FALL CREATING A SERIOUS INJURY OR DEATH.


To start the wash action, press and release the green “START” button. A strong “rolling” action should become present in the wash tank. To stop the wash action, press the red “STOP” button.

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 that items are brought to the Power Soak, rinsed and put in the wash tank, the easier they are to clean!

Properly Scrapping Pots and Pans


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



HOT WATER! WASH SINK WATER CAN EXCEED 120°F (49°C). WEAR PERSONAL PROTECTIVE EQUIPMENT TO AVOID SCALDING OR BURNS.



ROTATING WARES IN THE POWER SOAK PS-200 WASH SINK MAY SPLASH FLUID FROM THE SINK CREATING A WET FLOOR IN FRONT OF THE SKEWER SOAK WASH SINK. BE AWARE THAT A WET FLOOR MAY CAUSE A PERSON TO SLIP AND FALL CREATING A 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 BE SUBMERGED AND CAUSE A DROWNING DEATH.

Loading and Using the Wash Tank


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.

Loading and Washing Utensils


Each Power Soak system comes with a utensil basket that hangs in the wash sink. All utensils and other small wares should be loaded into and washed inside this 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 TANK 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 UTENSIL 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 A MUSCLE STRAIN.

Unloading the Wash Sink

The employee responsible for pot washing should routinely pass by the Power Soak and remove clean items from the wash sink. Items that are not 100% clean can be quickly finished off with a scrub pad or dropped back into the wash sink for additional cleaning. Remember: it is not necessary to turn the wash action off to load or unload items from the wash sink. There are no moving parts within the wash sink that could cause bodily harm.

Rinsing Pots and Pans after Wash is Complete

Clean items that have been removed from the wash tank or utensil area should be thoroughly rinsed. This is achieved by spraying them off or dipping them in the (center) rinse tank. 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 tank.

Sanitizing Pots & Pans

After items have been properly rinsed they must be sanitized in the sanitizing tank. It is necessary for each item to remain submerged 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 the chemical supplier’s instructions to ensure that all items are properly sanitized.

Drying of Pots & Pans

After items have been sanitized, they should be thoroughly air 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.

Wash, Rinse and Sanitizer Clean-Up

Between each water change and at the end of each night, all tanks and drain boards should be thoroughly cleaned with hot, soapy water. It is also recommended to wipe down all the tanks and drain boards with a sanitizing agent. Ask your chemical provider to recommend a sanitizer for this application.

PREVENTATIVE MAINTENANCE

The Power Soak PS-200 requires minimal, routine preventative maintenance. The following procedures should be done to ensure that the PS-200 remains reliable. If there are any questions regarding the preventative maintenance procedures, please contact the factory at 888-994-7636.



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.

DAILY

Clean the liquid level sensors that are located on the side walls of the wash and sanitizer tanks. They are the 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 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 tank. Simply add a recommended titration of de-liming agent to a tank of warm, fresh water and run the system overnight. Ask your chemical sales representative to recommend a specific de-liming agent.

TROUBLESHOOTING



THE ONLY TROUBLESHOOTING PROCEDURE THAT THE FACILITY OWNER OR MANAGER CAN PERFORM IS LISTED IMMEDIATELY BELOW. ALL OTHER PROCEDURES MUST BE PERFORMED BY AN AUTHORIZED SERVICE AGENCY. TO OBTAIN THE NAME OF A RECOMMENDED SERVICE AGENT IN YOUR AREA, PLEASE CALL THE POWER SOAK SERVICE DEPARTMENT AT 888-994-7636.

DEFINITION OF RESPONSIBILITIES

Facility Owner/Manager Section

LED Status on Control Panel Overlay It is recommended that the condition of the system be verified by first observing the “STATUS” LED’s on the front of the control panel. If necessary, take corrective action prior to performing any further troubleshooting.

Green Light (under the green “Start” button) Slow Flashing – “POWER ON” – system is energized and ready to fill. Solid Illumination – “READY” – wash sink is full; system is ready.

Blue Light (between the green “Start” and red “Stop” buttons) Solid Illumination – “CHANGE WASH WATER” – after a standard four-hour wash cycle, the system becomes disabled until the wash sink is drained and refilled.

Red Light (under the red “Stop” button) Slow Flashing – “FILL SANITIZER TANK” – sanitizer tank must be filled to the waterline. Solid Illumination – “CHANGE SANITIZER SOLUTION” – After two hours, the sanitizer tank must be drained and refilled.

Wash Pump/Heater Will not Operate If after reviewing the status of the control panel LED’s, there is still an operating problem, refer to the following troubleshooting guidelines:

- Check to make sure the main electrical power breaker for the Power Soak system is in the “ON” position.
- Check to make sure the wash sink is filled to the waterline.
- Check to make sure that the liquid level sensors are clean and free of any debris or grease. The liquid level sensors are located on the side walls of the wash and sanitizer sinks (the white plastic disc with a metal center).

If the above trouble shooting procedures do not correct the problem, contact Power Soak at 888-994-7636 or an authorized service agency. Have the serial number of the machine ready when the call is placed.



THERE ARE HAZARDS TO UNTRAINED OR UNAUTHORIZED PERSONNEL. THE FOLLOWING PROCEDURES ARE 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 AT 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.

AUTHORIZED SERVICE AGENCY SECTION

Explanation of LED Sequence

To verify the proper operation of the Power Soak machine, the operating logic of the controls will need to be examined. This will require opening the control box by removing the two screws on the face of the enclosure cover. The Universal Programming Module (UPM) is mounted to the inside of the control enclosure

cover. The UPM has four LEDs mounted on its top edge. The meaning of each LED is as follows, starting from the right-most LED:

- #1 - Power On
- #2 - Error Code
- #3 - Wash Tank Low-level Sensor
- #4 - Wash Tank Upper-level Sensor
- #5 - Sanitizer Tank Low-level Sensor
- #6 - Sanitizer Tank Upper-level Sensor



REFER TO THE PREVIOUS CHECKLIST UNDER THE “FACILITY OWNER / MANAGER SECTION” BEFORE PROCEEDING TO THE FOLLOWING CHECKLIST ITEMS.

Wash Pump/Heater Will not Operate

Verify that the POWER light on the control panel and the LED #1 (Power On) is illuminated on the UPM. If LED #1 is not illuminated, check:

- Main power supply circuit breaker.
- Fuse inside the control enclosure.
- 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 Liquid Level LEDs #3 and #4 are illuminated when the wash tank is filled to the waterline. If any of the LED’s are not illuminated when the tanks are filled, test the liquid levels in the sanitizer tank:

- Clean the liquid level sensors as described in the “Preventive Maintenance” section of this manual.
- Be sure that all connections to and from the Liquid Level sensors are secure and that there is no physical damage to the wiring.
- If damage to connectors and/or wiring is found, contact Power Soak at 888-994-7636.

If the troubleshooting guidelines shown above do not correct the problem, it will be necessary to contact Power Soak at 888-994-7636. Prior to calling, please note the “Error Code” (if any) that can be identified by observing LED #2 on the UPM and the “ERROR” green LED on the front of the control panel. If there is a control logic error, the ERROR light and LED #2 will flash with a “blinking” pattern. The definitions for the patterns are as follows:

A “_” symbol represents a “long” flash

A “.” symbol represents a “short” flash

___ . = Water Level Problem

___ . . = Temperature Sensor Problem

___ . . . = Over Current Problem

___ = Over Temperature Problem

___ = Current Sensor Error

___ = Membrane Error

Note: If the Machine is flashing an error code, try having the service person cycle the breaker for the Power Soak. Occasionally an unstable power situation from the incoming power supply can cause a false error.

This type of error can be reset 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. The machine serial number will also be needed at the time of the call.

INSTALLATION & DECOMMISSIONING



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 the Power Soak PS-200.

ELECTRICAL REQUIREMENTS

The electrical requirements of the PS-200 are on the serial number plate located on the front corner of the wash tank, adjacent to the control panel enclosure and inside the enclosure itself.

- All Power Soak systems have a single point electrical connection, and a dedicated circuit is required.
- The system is completely pre-wired and tested at the factory, and a hardwired connection from an appropriate power source junction box is all that is required.
- The installer is to provide a disconnect that should be incorporated in the fixed wiring.
- Properly sized watertight conduit, fittings and parts are required, as well as the appropriate gauge wire.
- If your system is a “left-to-right” unit, you should locate the power source junction box at the left end of the system. (The opposite would be true for a “right-to-left” system.) Ideally, the junction box should be located on the wall directly behind the pump motor and control panel.
- A wiring diagram is located in the machine’s control panel enclosure.
- An equipotential bonding terminal is provided on the side of the wash tank and identified with the symbol shown at the right of this statement.

This terminal is used to make a connection for properly grounding the machine. This connection must be completed by a qualified electrical technician.

Specific part numbers and part information can be obtained from the factory by calling 888-994-7636. Service information is also found on the Power Soak, Inc. website (<http://unifiedbrands.net>).

PLUMBING REQUIREMENTS

The PS-200 requires the following plumbing connections:

- One 3/4” (19mm) or 1/2” (12 mm) cold water supply line.
- One 3/4” (19mm) or 1/2” (12 mm) hot water supply line.
- One waste water connection minimum 1-1/2” (38mm).

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 (1.4 Bar).

DECOMMISSIONING

When it is time to decommission the PS-200 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 PS-200 was purchased.

The metal in the sinks and control panel enclosure has a value in the recycled metals market. The owner of the PS-200 can recover this value by directly contacting a metal recycling facility and making arrangements to recycle the metal.

If any or all of the PS-200 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.