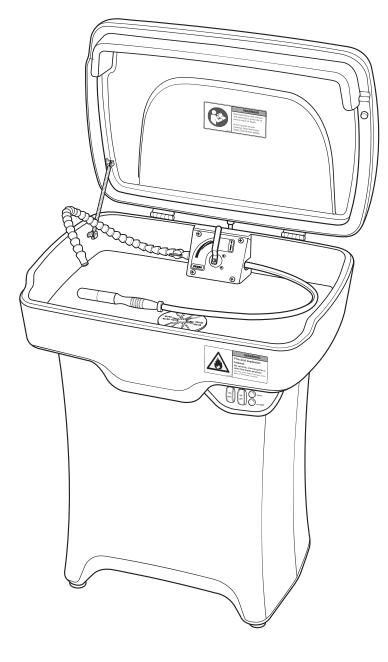
Heated Aqueous Parts Washer

User Manual APW20HT



READ ALL INSTRUCTIONS BEFORE USING, OR SERVICING, THIS EQUIPMENT. KEEP THIS MANUAL IN A LOCATION THAT IS READILY AVAILABLE TO USERS AND SERVICE TECHNICIANS.

English (Original Instructions)

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A WARNING



Failure to read all the instructions before operating the unit may result in personal injury or death from the improper use of the chemical solution. Anyone handling, operating or using the unit must read, and understand, the instructions in the manual. The buyer assumes all responsibility for safety and proper use in accordance with the instructions.





Using, or servicing, the unit without proper protective clothing, gloves, and eye wear may result in serious injury such as burns, rashes, eye, throat or lung damage and death. Always wear protective clothing, gloves, and eye wear when using, or servicing, the unit. Protect eyes, skin, and lungs against drifting spray.

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injury or death. Never add, mix, or use, non-aqueous solvents to the aqueous (water) based solution when using or servicing this equipment. Always follow these instructions:

Using, or mixing, any amount of non-aqueous solvents (i.e.: alcohol, gasoline, petroleum or chlorinated solutions) when using this equipment may cause explosions, fire, skin burns, fatigue, dizziness, serious

- Only use non-flammable / non-combustible aqueous based solutions with this equipment.
- Drain any non-aqueous solvent from parts before cleaning.
- Read, and follow, all chemical safety precautions and handling instructions provided by the solution manufacturer and the Safety Data Sheet (SDS) associated with the solution being used before using the equipment.



Splashing, spills, puncture of the sink or base may result in standing fluid and cause people to slip and fall resulting in serious injury or death. Immediately cordon off the hazardous area to human and vehicular traffic and clean up any standing fluid around the equipment. Always follow the guidelines of the solution manufacturer and the Safety Data Sheet (SDS) associated with the solution when disposing the material used to clean the standing fluid.



Movement of the equipment due to collision or repositioning may cause the equipment to tipover and result in serious injury or death. Install the equipment in a low traffic area away from vehicular traffic lanes. Always ensure the equipment is level and stable before using or servicing the equipment.



Overloading or imbalanced weight distribution of parts in the Sink may cause the equipment to tipover and result in serious injury or death. Always keep the total weight of the parks in the sink under 400 pounds. Always arrange the parts so their weight is evenly distributed.

Contact with hot surfaces may result in serious burns. Never touch the heating element while it is hot. Always allow the heating element to cool down before handling.



Improper use, or accidental movement, of this equipment during the part cleaning process, equipment cleaning or servicing may result in aqueous based solution making contact with the skin, eyes and soaking a person's clothing. This may cause irritation to a body part and should be addressed immediately. If this occurs, always follow safety guidelines of the solution manufacturer and the Safety Data Sheet (SDS) associated with the solution.

Fumes and odors from the cleaning process may cause irritation to a person's eyes and breathing. Always locate this equipment in well ventilated area.

NOTICE

Servicing, or modification, of this unit with parts not listed in this manual may cause the unit to operate improperly. Do not use unauthorized parts when servicing the unit.

Running the heater element without being completely submerged in fluid will damage the heating element and void the warranty. Always ensure the heating elements is completely submerged in the solution before operating the equipment. Do not attempt to override the solution level float switch.

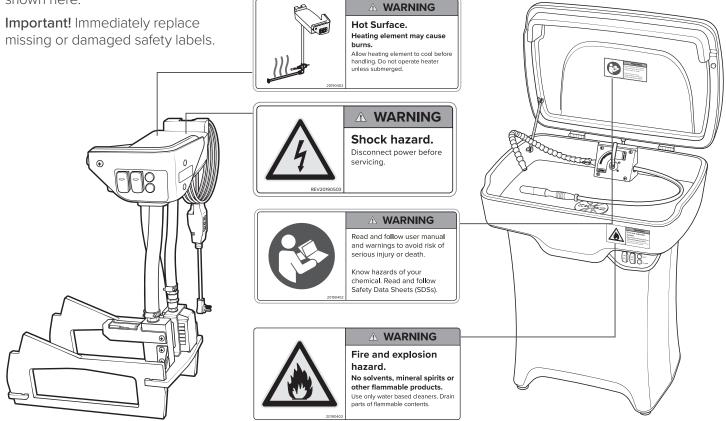
PROTECT THE ENVIRONMENT



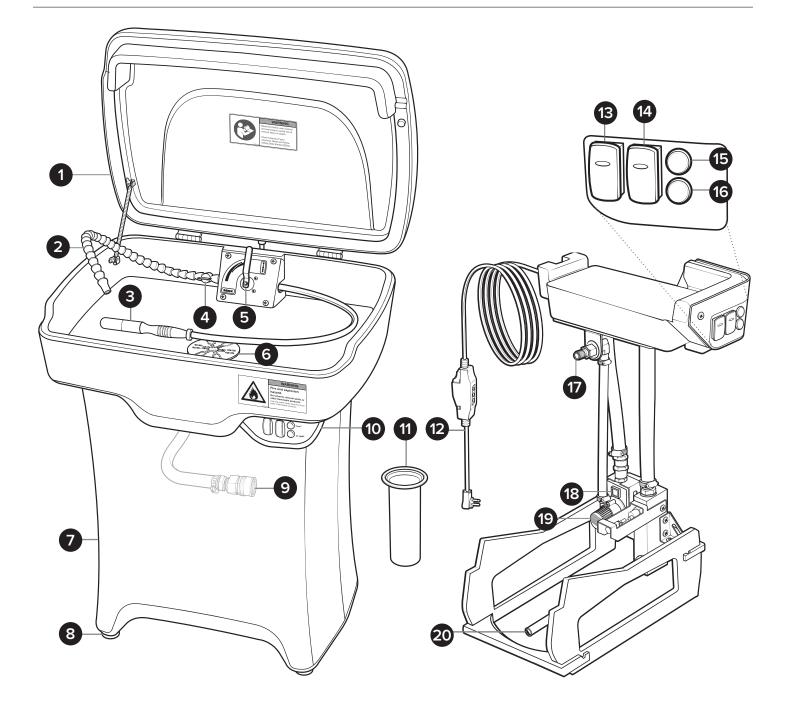
Please dispose of packaging materials, old machine components, and hazardous fluids in an environmentally safe way according to local waste disposal regulations

Safety Labels

The location of safety labels are shown here.



2 Product Overview



- **1.** Lid
- 2. Flexible Rinse Line
- 3. Flow-Thru Brush
- 4. In-line Valve
- 5. Rinse/Brush Handle
- 6. Drain Grate
- 7. Base

- 8. Mounting Feet (x4)
- 9. Sink Hose Quick Connect
- **10.** Control Box Assembly
- 11. Filter Bag
- 12. Electrical Plug
- 13. Pump On/Off Switch
- 14. Heater On/Off Switch

- 15. Low Fluid Level Light
- 16. AT TEMP Light
- 17. Supply Hose Quick Connect
- 18. Low Fluid Switch
- 19. Pump
- 20. Heating Element

3 Installation

WARNING



Locating the equipment in high traffic areas or vehicular traffic lanes may result in the equipment being punctured or tipped over causing spills, standing fluid and cause people to slip and fall, serious injury or death. Install the equipment in a low traffic area away from vehicular traffic lanes.

System requirements

Incoming liquid temperature range	40-110 °F (4.4-43.3 °C) Note: Heated operating temperature is 105 °F (40.6 °C).
Electrical requirements	120 VAC at 60 Hz, 15A
Operating voltage	120 VAC
Chemical compatibility	For use with aqueous solutions only. Chemical products used with this equipment must be formulated for this type of application and compatible with unit materials and pump seals. For more information on chemical compatibility, consult the manufacturer or SDS for your product or contact our customer service department.

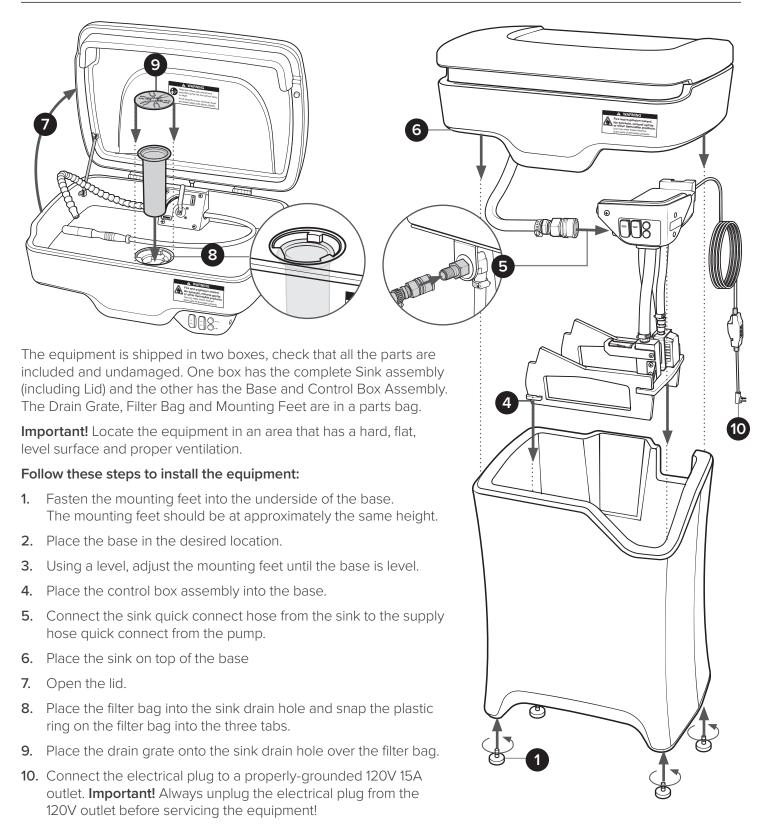
System specifications

Electricity
Draws from pre-mixed solution
One product
20 gallons (75.7 liters)
FLOW-THRU BRUSH: 3 ft. (0.9 m) hose with 3/8 in. (9.5 mm) inside diameter and flow-thru brush
FLEXIBLE RINSE LINE: 2 ft. (0.6 m) modular hose with 1/2 in. (12.7 mm) inside diameter and 1/2 in. (12.7 mm) round nozzle
150 gph (567.8 l/hour)
Viton
105 °F (40.6 °C)
250 micron rating, size 4
Up to 400 lbs. (181.4 kg)
33 x 25 x 65 in. (83.8 x 63.5 x 165.1 cm) with lid open
30 x 18 x 5 in. (76.2 x 45.7 x 12.7 cm)
36 in. (91.4 cm)
Four adjustable leveling feet
Conforms to UL Std. 1204, Certified to CSA STD. 22.2# 68

Assembling the Equipment

NOTICE

Operating the equipment with the protective packing material on the Control Box Assembly may cause damage to the equipment. Remove the protective packing material on the Control Box Assembly and properly dispose before using the equipment.



4 Use

Important! Only aqueous (water) based solutions shall be used with this equipment. It is beyond the scope of this manual to describe every aqueous based solutions available. It is the user's responsibility to ensure the use of proper solutions with this equipment.

Chemical solutions must be formulated for this type of application and compatible with unit materials and pump seals. Always read, and follow, all chemical safety precautions and handling instructions provided by the solution manufacturer and the Safety Data Sheet (SDS) associated with the solution being used before using the equipment. Never use any amount of non-aqueous solvent with this equipment.

Follow these steps to use the equipment:

- 1. Lift the sink up from the base.
- 2. Fill the base with the aqueous based solution.

Important! Do not fill higher than the maximum fill line. The equipment has a maximum capacity of 20 gallons (75.7 liters).

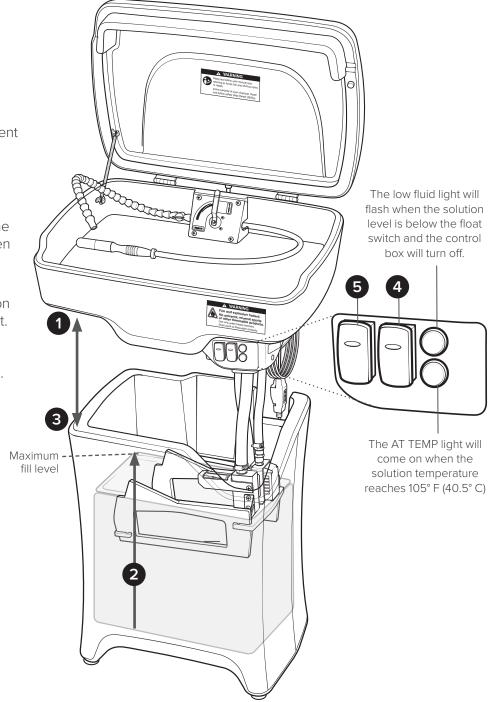
3. After the base is filled, place the control box assembly and sink back onto the base, re-connect the supply hose if necessary, and open the lid.

Important! Always ensure the heater is submerged in the solution during operation of the equipment. Do not run the equipment if the heater is not submerged in the solution. This will damage the unit.

4. Press the heater on/off switch to turn the heater *On*.

Note: It takes about $1\frac{1}{2}$ hours to heat very cold solution to 105° F (40.5° C).

5. Press the pump on/off switch and turn the pump **On**.



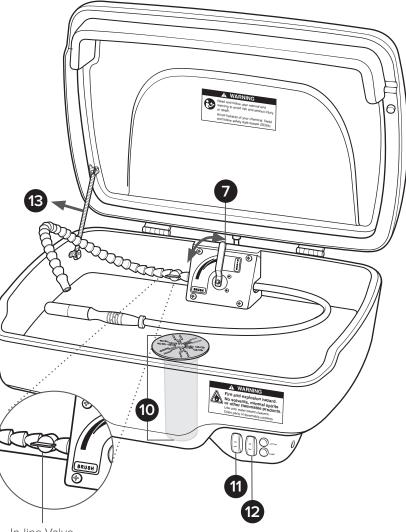
6. Place the parts in the sink.

Important! Do not overfill the sink. Maximum weight of the part(s) should not exceed 400 lbs.

7. Move the rinse/brush handle towards the Rinse or Brush Hose.

Note: The in-line valve can control the flow through the Rinse Hose. Turning the in-line valve fully to the right while the rinse/brush handle is in the rinse position will shut off the flow completely.

- 8. Clean the parts. Move the handle to the center to use both tools simultaneously.
- **9.** Remove the parts and repeat steps 6–8 with additional parts.
- Monitor the drain grate and filter bag for accumulated solid waste. Monitor the solution quality. Conduct maintenance if needed (see Section 5: Cleaning & Maintenance for more information).
- **11.** Press the pump on/off switch and to the pump **Off** when finished cleaning the parts (or servicing the equipment).
- 12. Press the heater on/off switch and turn the heater Off when finished cleaning the parts (or servicing the equipment).
- **13.** Tap the lid spring towards the front of the equipment and close the lid.



In-line Valve

5 Cleaning & Maintenance

A WARNING



Using, or servicing, the unit without proper protective clothing, gloves, and eye wear may result in serious injury such as burns, rashes, eye, throat or lung damage and death. Always wear protective clothing, gloves, and eye wear when using, or servicing, the unit. Protect eyes, skin, and lungs against drifting spray.

Splashing, spills, puncture of the sink or base may result in standing fluid and cause people to slip and fall, or cause electric shock and electrocution if a person makes contact with a live electrical circuit, resulting in serious injury or death. Immediately cordon off the hazardous area to human and vehicular traffic and clean up any standing fluid around the equipment. Always follow the guidelines of the solution manufacturer and the Safety Data Sheet (SDS) associated with the solution when disposing the material used to clean the standing fluid.

Important! Dispose of the solution properly. Always follow local, state and federal regulations and laws when disposing hazardous materials. Consult with the local environmental management agency for additional guidance.

Cleaning and maintenance intervals will vary based on usage and soil levels, users should reference chemical manufacturer recommendations on how frequently they need to change out the cleaning solution.

Changing the Filter Bag

Follow these steps to change the filter bag:

- 1. Wipe down the sink interior and rinse any debris into the drain.
- 2. Remove the sink drain grate.
- **3.** Remove the filter bag by pulling it up and out of the Sink.
- Fit a clean filter bag by pushing the ring of the filter into the retaining tabs of the sink drain.
 Note: The plastic ring on the filter bag must snap into the three tabs on the sink drain hole when refitted.
- 5. Put the drain grate back in place.

Changing the Cleaning Solution

Follow these steps to change the cleaning solution:

- 1. Position the spigot over the edge of the sink and into a suitable container.
- 2. Move the rinse/brush handle to the rinse position and drain as much solution as possible.
- 3. To completely drain the solution:
 - a. Lift up on the right side of the sink to access the quick release button on the hose connected to fluid supply connector on the control box assembly.
 - **b.** Undo the connection by pressing the quick release button.
 - c. Lift the sink off and set aside.
 - **d.** Remove the control box assembly and set it aside.
 - e. Use a fluid evacuator to remove the remaining solution.
 - f. Wipe down the base and remove collected sediment.
 - g. Refill with clean solution.
 - h. Place the control box assembly on the base.
 - i. Connect the hose from the sink to the control box assembly.
 - j. Place the sink on the base.
 - k. Reconnect the air supply.

6 Troubleshooting

Issue	Solution
Solution doesn't flow through the Flexible Rinse Line or Flow-Thru Brush	Check the hoses between the Sink and Control Box Assembly are connected. Reconnect if necessary.
	 Check the hoses between the Sink and Control Box Assembly are not pinched or damaged. Repair or replace if necessary. Check the pump is functioning. Repair or replace if necessary.
	• Check the pump is functioning. Repair of replace if necessary.
Solution doesn't drain.	Check the Drain Grate and Filter Bag for sediment buildup or blockage. Clean or replace if necessary.
Unit trips GFI	If the GFI trips only when the pump is turned on, replace the pump assembly. If the GFI trips for any other reason, return the unit for service.

7 Parts

Item number	Description
APW20HT-CB-BK	Control box for APW20/HT-black
BRPW-A	Parts washer brush assembly- includes hose
EP115V-PW-A	115v submersible pump for parts washer-viton-service assembly
LVFT200	Leveling feet-200 lb capacity
PW-BASE	Base for APW20/HT
PW-DRPL	Drain plate for APW20/HT
PW-FLTBG	Filter bag for APW20/HT
PW-HV3-A	HV38SS-3 valve assembly for APW20/HT includes; ball valve and hose barbs
PW-LID-A	Lid assembly for APW20/HT- includes; lid, spring, hinges
PW-LLV12-A	Lockline in-line valve assembly for APW20/HT-includes round nozzle, segments,and connector
PW-WR14G-GFI-9	Inline GFI-14/3-9 ft long- assembled with wiring and connectors for APW20/HT
QCSS12F	SS non check 1/2 in quick connect coupler - FPT
QCSS12PF	SS non check 1/2 in quick connect plug - FPT

