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WATER TREATMENT SERVICE TIPS

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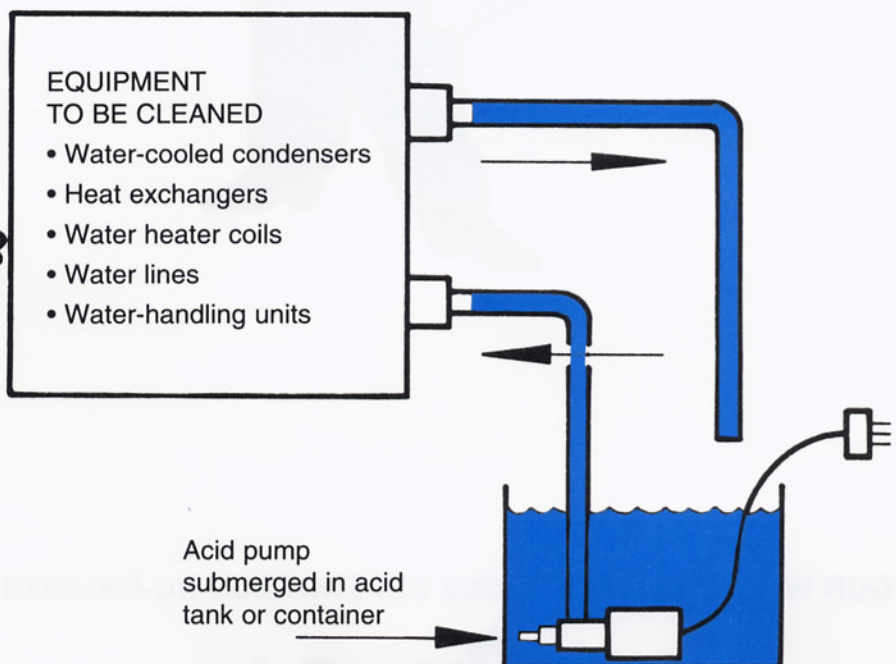
HOW TO USE AND CARE FOR AN ACID PUMP

HOW TO USE:

A good acid pump is essential to circulate hydrochloric acid solutions or sulfamic acid solutions through water-handling equipment. Service engineers get best results by following these steps.

1. Connect acid pump to bottom of equipment to be cleaned as shown in diagram below. This eliminates air pockets. Connect return line from top of equipment so that it discharges away from pump suction area.
2. Use a 10 or 20-gallon plastic container for a tank and place pump at the bottom with pump discharge pointing straight up. Fill tank two-thirds full with tap water. Connect pump wire to 115-volt ac outlet and **ground it properly**.
3. **Add acid carefully to water** in tank. For fast action, use 1 gallon of liquid acid, or 5 pounds of powdered acid, for each 5 gallons of water in the container.
4. Depending upon the thickness and type of scale encountered in the equipment to be cleaned, acid solution should be circulated for 1/2 hour to 3 hours. Check solution periodically with pH paper for proper acid strength.
5. When solution coming from return line has no bubbles and is still acid, equipment is clean.
6. After cleaning, pump or dump used acid solution down a drain. Refill tank with fresh water; flush equipment and pump with this water. Use an acid neutralizer such as soda ash if cleaned equipment is not put in service immediately.

Note: Do not use a large acid pump on equipment with small capacity. Choose a pump with low flow rate, such as the Nu-Calgon Wholesaler, Inc. No. 31-TX Acid Pump (Part No. 4603-0), to assure safe water velocity through the tubing.



SEE THE BACK SIDE FOR PROPER CARE

ACID PUMPS WORK BETTER...LAST LONGER WITH PROPER CARE

To circulate hydrochloric acid solutions or sulfamic acid solutions through scaled water-handling equipment, a good acid pump is an essential tool. While acid pumps are expendable, experienced service engineers get better performance and extra service by following these easy steps.

1. After use, do not leave pump in acid solution. Remove it for cleaning.
2. Do not allow acid solution to remain inside pump. Flush pump out thoroughly with clean water.
3. Don't leave pump submerged in any type of solution. Keep it dry when not in use.

4. Never operate pump when dry. Motor can overheat and seals are not lubricated unless pump is completely submerged during use.
5. Don't use a large acid pump with small-capacity equipment. Choose a pump with low flow rate, such as the Nu-Calgon Wholesaler, Inc. No. 31-TX Acid Pump, to assure safe water velocity through the tubing.



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