

DETERGENTS

COIL DESCALING SCALE BUILD-UP



Lime and scale build-up in a pressure washer coil is caused by hard water leaving silicates, sulfates and similar materials that will interfere with a proper coil operation. This buildup of debris will result in corrosion, reduce water pressure and less water volume. Preventing scale from building up or “descaling” will increase equipment efficiency, prolong the life of the coil and ultimately save money.

How often to descaling is dependent on three factors: how hard the water is, the water temperature and the frequency of use.



WATER HARDNESS

Hard water is water that has a high mineral content, usually calcium and magnesium sulphates and/or chlorides. Hard water forms off-white solid deposits called “scale” which restrict the flow of water, resulting in clogged pipes and plumbing.

WATER TEMPERATURE

As water temperature increases, the volume of mineral scale that the water is able to hold drops. This results in the release of scale molecules into the water. These scale molecules attach to other crystals and the scale buildup has begun. A basic rule of thumb is the hotter the water (especially steam) the more frequent descaling is required.

USAGE

The more hard water pumping through a coil, the quicker the scale buildup.

PREVENTATIVE MEASURES

The cheapest most effective way to prevent scaling is to incorporate a water softener. Not only will a water softener reduce scaling, but it will also lower your consumption of soap.

Cooling down the coil after each use will also help to reduce scaling. After each use, turn the burner off and run cold water through the system. This will flush any loose debris out.



HOW TO DESCALE

It is recommended that an auxiliary pump be used to descale and clean the heating coil. Use a small diaphragm pump and install it into the cleaner system as follows:

- Disconnect inlet fitting and outlet fitting from coil to access coil
- Connect about six feet of hose to suction side of auxiliary pump and place other end into a five (5) gallon pail.
- Connect about six feet of hose to inlet side of coil and other end into the five (5) gallon pail
- Connect a discharge hose between the auxiliary pump output port and outlet of the coil
- Mix four gallons of water with 32 ounces of Alkota SD929 Scale Away (contains sulfamic acid)
- Operate pump and circulate the acid mixture through the coil system for 30 minutes or until discharge solution stops foaming.
- When coil is clean, foaming will stop
- After cleaning, remove auxiliary pump assembly and reconnect plumbing
- Operate machine and pump clear water through unit for five minutes. Thus, you have neutralized any remaining acid while flushing out all line and sludge deposits
- Replace gun assembly

Note: Flush pail, diaphragm pump and hose's with clear water for 5 to 10 minutes before storing away for next use.



SCALE AWAY P/N B03-SDH529F3 25 lb. Box

DOT DESCRIPTION

UN1759, Corrosive Solid n.o.s., (Contains Sulfamic Acid) 8, III

DIRECTIONS

Depending on the amount of scale present and the size and type of machine the dilution will vary. Start by using 8 ounces of SD -929 to one gallon of water.



SCALE SD527 P/N B03-SHH527F1 Box of 10, 8 oz. bottles

Once coil is descaled, maintain optimal performance with Scale Away SD527. Each 8 oz bottle contains scale away non-hazardous scale preventive compound that extends the life of pump and heating coil on all hot water cleaning systems. Just remove tape to expose dispenser holes and place in your float tank. It's that simple.



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CERTIFICATIONS



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