

SWEP

A DOVER COMPANY

GOODWAY®

INNOVATIVE MAINTENANCE SOLUTIONS

DESCALING SOLUTIONS FOR SWEP HEAT EXCHANGERS

Preventative maintenance is an integral part of any water operated piece of equipment's efficient operation. SWEP & Goodway® Technologies have partnered to bring customers a safe cleaning product and methodology to insure your heat transfer remains optimal.



SWEP brazed plate heat exchangers transfer energy (heat) with high efficiency and minimal thermal loss. When operating with hard water or with high temperatures, scale deposits derived from mineral within a water source may fall out of suspension and plate onto the heat transfer surface. These deposits increase the pressure drop and insulate the heat transfer surface, decreasing the heat exchanger efficiency. As scaling builds up it may act as a breeding ground for particulate fouling and even creating a microclimate for corrosion.

Goodway® Technologies ScaleBreak®- MP is a unique blend of citric acid with the inclusion of corrosion inhibitors, wetting and penetrating agents. It offers excellent cleaning results and speed without compromising the long term integrity of equipment base metals. The biodegradable descaling solution that will safely dissolve scale deposits into a liquid suspension allowing them to be flushed out of BPHE's leaving no residual solution.

BPHE cleaning instructions with ScaleBreak-MP are available. SWEP have tested and verified the compatibility of ScaleBreak - MP with their products.

HOW DO YOU DETERMINE YOUR SWEP BPHE NEEDS CLEANING?

Preventative maintenance should be carried out periodically to ensure that the system is operating at optimal performance. Preventative maintenance is recommended if:

- Temperature difference over heat exchanger is less than expected
- Pressure drop over heat exchanger is >30% than nominal value
- Pump is consuming more electricity than normal

Before deciding to clean the BPHE, make sure that water flow rates are according to specification, filters are clean, valves are open and pumps are functioning properly.

SWEP selection software SSP includes a CIP calculation tool to help compare nominal and measured pressure drops.

www.ssponline.swep.net/

Monitoring performance on a frequent basis will help you ensure your system is working with maximum efficiency, preventing energy waste and unplanned downtime.

CIP: When to do it?

- Temperature difference is less than specified.
- Higher pressure drop than specified over the BPHE. 30% or higher increase indicates need for cleaning.
- Before deciding to clean the BPHE, make sure that filters are clean and pumps are functional to rule out any other options.



Optimal results are achieved when you pump ScaleBreak-MP into the bottom of your equipment and return out the top. This method insures the area to be cleaned was flooded, allowing the ScaleBreak-MP to come in contact with all the deposits.

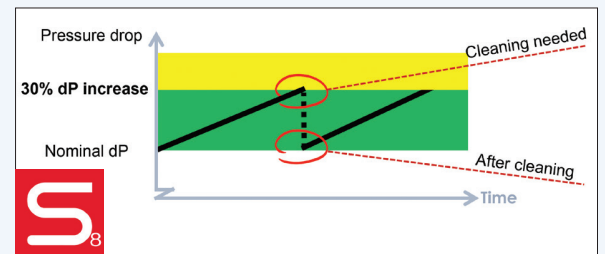


PLATE & FRAME HEAT EXCHANGER DESCALING CALCULATOR

Plate & Frame Heat Exchanger Descaling Calculator

Here's a quick and easy way to figure out how much ScaleBreak you may need to complete a proper descaling. Start by entering the dimensions of your heat exchanger.

Units: US Metric

Width (inch)

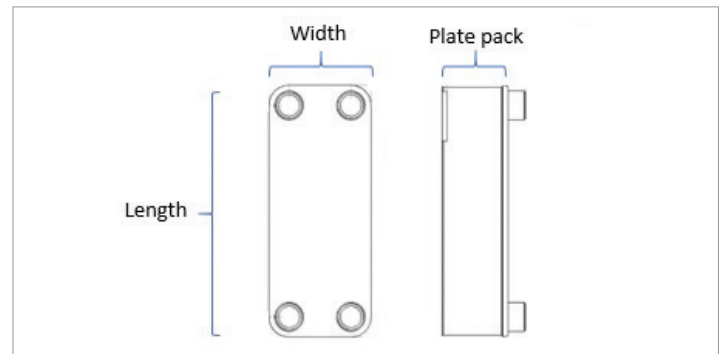
Height (inch)

Plate Pack Thickness (inch)

Volume of ScaleBreak Per Side: 27 gallons

Recommended Circulation Time: 2 hours

BRAZED PLATE HEAT EXCHANGER



Goodway Benelux has in-house chemical experts which can provide adequate support for your cleaning challenges. They can (for example) determine the correct amount of ScaleBreak-MP descaler required for a cleaning as well as the recommended circulation time. You can contact us at: www.goodwaybenelux.nl/en/service

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