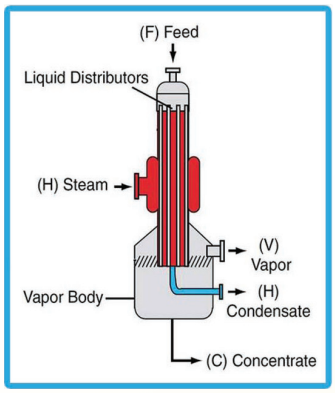
Case Study
SODAWIN-CF & ROCKWIN-SQ

KW Sugar Chemicals

Background

A Sugar Mill customer located in Maharashtra (India) wanted to improve cleaning of two sets of heavily scaled Falling Film Evaporators (FFE) to achieve improved cleaning thereby increase production rates. A total of Four (4) FFE bodies with stainless 304 steel tubes (9 meter length) needed to be cleaned with Heating Surface Areas (HSA) provided below. Manual cleaning of tubes was not possible due to the long tube lengths.

Heating Surface Area (m^2)			
FFE Set 1 Bodies		FFE Set 2 Bodies	
2600 m^2	1200 m^2	2000 m^2	1600 m^2



Falling Film Evaporator

Scale Type

The scale, as determined by the Sugar Mill was calcium carbonate, calcium sulfate and hard silica-type.

Cleaning Parameters

Alkaline scale softening & cleaning with only SODAWIN-CF at 100°C followed by an acidic scale removal with ROCKWIN-SQ at 70°C was performed to remove heavy scale build up in the FFE Bodies. No addition of caustic soda or soda ash was done.

Results

Alkaline scale treatment with SODAWIN-CF resulted in considerable softening of the hard scale deposits. Thereafter, the scales were completely removed with ROCKWIN-SQ.

* Brand Names: SODAWIN™-CF & ROCKWIN™-SQ is sold by King Win Polymers in South East Asia.

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