

California Winery Cleans Up Heat Exchanger



Photo on left above shows the heat exchanger, second shows the installed Hydrosmart and Doug Ryerson, of Hydrosmart's Western USA agency is shown in the right hand photo above holding a bag with just some of the scale that was removed after several weeks of Hydrosmart treating the heat exchanger feedwater.

North east of San Francisco, Hydrosmart water conditioning is winning gains for a large winery, where it is installed on their bottling lines heat exchanger.

A two-inch Hydrosmart system was installed on a heat exchanger that carries hot water of 82 degrees Celsius (180 degrees F) and 80 PSI, to heat cold water. The Hydrosmart operates within these conditions to remove and prevent scale build-up on the heat-exchanger's plates.

The existing scale was causing a problem and reduced efficiencies and downtime and electronic water conditioning was identified as the appropriate solution. After a few weeks of operation of the Hydrosmart, bags of scale were being harvested, and after a couple of months, the multiple plates were clear of hard scale. Function and efficiency of the heat exchanger improved. In fact, something the operators had never seen before has enabled more efficiency and lower energy costs!

The projects chief engineer states: "Regarding the outcomes gained, it is actually a 50 degree Fahrenheit temperature differential at the heat exchanger now. The unit is engineered for a typical 30 degree heat transfer differential, but we are seeing an increased 50 degree transfer. This means more efficient heating of our process water and a quicker turnaround time to bring the temperature up to our specifications."