



TRANSLATION OF LETTER FROM Pica SA

To  
CATALUB SA  
Guayaquil - ECUADOR

Dear Sirs,

At request of CATALUB, local representative of the catalytic treatment systems SCALETRON and COLLOID A TRON we are pleased to report our experience with these products.

In January 2010, Eduardo Granja, CATALUB General Manager, introduced us to SCALETRON catalysts line, to prevent or eliminate the formation of scale in pipes as a result of the passage of hard water.

To assess the quality of the equipment and check its attributes, we decided to install a SCALETRON in a heat exchanger that supplies cooling water to an injection moulding machine. This exchanger, **despite being supplied with treated water from softeners**, had to be cleaned every three months to remove the fouling.

The project began with a review of source water and the results analyzed by the manufacturer, determined that the SCALETRON was suitable for this application.

Based on this recommendation we installed a SCALETRON 1 " in diameter . The result after 30 days of installation was a reduction of fouling by 15%.

Since this first result was below expectations, the installation was re-analyzed the feed water flow to the exchanger rechecked and it was decided to change the 1" unit for a ¾" unit "

After the installation of ¾ " the installation was assessed after a further month an the results were very satisfactory. After 90 days all the previously deposited fouling in the heat exchanger had disappeared in addition the cooling efficiency increased dramatically the cooling water temperature has dropped by 15% below the temperature at which it worked before installation of SCALETRON ¾ ", the end result was that the machine operated more efficiently because the temperature of cooling water was not increased nor was it necessary to maintain the heat exchanger.

Based on these results we decided to incorporate new equipment in our plant and we are considering the installation of high flow catalysts for the protection of machinery and molds for a new plant under construction.

We believe that the incorporation of electrochemical catalysts SCALETRON and / or COLLOID A TRON in the production processes of PICA CA continue to provide the results hoped for and contribute to the better performance of our plants.

Sincerely,  
Mr. Ricardo Calero.  
General Manager  
PICA SA

