

**C A S E S T U D Y**

**DONG-BOO Chemical**



Installation View  
( ION F150, F200 X2 )



Furnace



Before installing ISB  
( Scale in pipe )



After installing ISB  
( for 386 days )



Before installing ISB  
( holder in furnace )



After installing ISB

**Dong Boo Chemical Co.**

Song Jung-Dong, Dong Hae Si, Kang Won-Do  
South Korea

**OVERVIEW**

The factory used water to cool down the electrode holders in the industrial furnace. Under normal furnace operation, these holders were destroyed by scale accumulation. Replacing an average of 7.8 electrode holder every month was very costly.

**WATER SYSTEM CHALLENGES**

The factory uses city water to cool the electrode holders, and scale was a problem.

**SOLUTION**

A 6" **ScaleBuster®** water conditioner **SB150** and 2 units of 8" **SB200** were installed on the main water inlet pipes.

**RESULTS**

The **ScaleBuster®** water conditioners have prevented scale build up on the electrode holders in the high temperature furnace operation. The replacement rate of the holders was decreased by 52% from 7.9 per month (average for years 1998, 1999, 2000) to 3.8 per month (after Aug. 2001).

Also, the factory had reported less scale build up in the water cooling pipes.

YEAR	1998	1999	2000	Avg. per Month	Reduction Rate
Holders Used	96	95	94	7.9	
<b>August 2001 – installation of ScaleBuster Water Conditioners</b>					
Holders Used	38 in 10 months			3.8	52%

**ABOUT THE TECHNOLOGY**

The patented **ScaleBuster®** technology completely replaces traditional chemical treatment; providing control of scale and corrosion in various water process systems to create an exceptionally clean system. This dramatically reduces energy and water consumption, while reducing or, in certain cases, eliminating toxic water discharge to the environment.