

## C A S E S T U D Y

### Commercial Laundry Facilities

#### OVERVIEW

Commercial Laundry facilities show common operational concerns. Keeping the machines free of scale buildup in a reliable and cost effective manner is important to business operations, and the hardness-free water is essential for best detergent use. In this industry, a facility's water system is one of the important resources and it's quality must be properly maintained.



#### WATER SYSTEM CHALLENGES

**Mineral Scaling:** Incoming water supplied to the laundry machines contains dissolved minerals. Calcium carbonate, for example, precipitates as scale on equipment surfaces, impeding heat transfer of heaters and decreasing detergent efficiency.

**Corrosion:** Most of the corrosion on copper, iron, steel, and galvanized surfaces shorten equipment life span. General corrosion can also occur due to low pH conditions in the water. Corrosion control is critical to protect the investment in equipment.

#### SOLUTION

The **ScaleBuster**<sup>®</sup> patented electrostatic water conditioner works synergistically with a filtration device to remove scale from equipment surfaces and restore the laundry system to its optimal operating efficiency. A 28m<sup>3</sup>/h side stream system (based on a 2" **ScaleBuster**<sup>®</sup> SB50) was installed in 2013 to treat the water in a 6.5m<sup>3</sup> water reservoir which supplies over a dozen of commercial washing machines. Each washing machine's water inlet (cold and warm) was also equipped with a 3/4" **ScaleBuster**<sup>®</sup> SB20-ET to boost the conditioning of the water.

#### RESULTS

The **salt-free scale removal** system (based on the **ScaleBuster**<sup>®</sup> technology) protects the commercial laundry against corrosion, while capturing and eliminating the old scale and corrosion in the equipment while allowing the operators to reduce detergent use by up to 20% and saving energy as well as maintenance (downtime, labour and parts) by keeping the systems free of scale.

#### ABOUT THE TECHNOLOGY

The patented **ScaleBuster**<sup>®</sup> 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.