

LECHLER SAVES ANNUALLY 20,765 M³ WATER AND MORE THAN 110,000 € FOR A GLOBAL ICE CREAM MANUFACTURER



Industry: Food
Country: Indonesia
Application: Tank cleaning



PROJECT GOAL

In June 2021, Lechler Indonesia Industrial Team and a global ice cream manufacturer conducted the trial using Lechler XactClean HP+ nozzles for optimizing ageing tank CIP process to achieve water saving objectives and improve the cleaning quality. The ice cream manufacturer's sustainability program is a very important topic. Efforts to reduce the water footprint were carried out by increasing the efficiency of water consumption and reducing wastewater pollution.



CHALLENGE

It was necessary to prove the effectiveness of the Lechler proposal by on-site demonstration runs. The result of the existing rotary spray balls (competitive product) was compared to the performance of our XactClean HP+. The trial report was sent to the head office of the ice cream manufacturer.



SOLUTION

Previous used product
rotating cleaning nozzle



11 m³/h
at 1.5 bar



XactClean HP+



6 m³/h
at 3.0 bar



WATER SAVING

20,765 m³/year, 32.6 % reduction

CHEMICAL SAVING

26 m³/year, 44.8 % reduction

ENERGY SAVING

3,516 kWh/year, 46.0 % reduction

COST SAVINGS

>110,000 €/year



CUSTOMER BENEFITS

Significant saving in water, energy and chemicals could be achieved. Furthermore, the cycle time of the 3-stage CIP process was reduced. Annual saving cost potential for this project is higher than 110,000 Euro. This leads to a return on invest time of less than 2 years.



Series 5S5, XactClean HP+

- High impact and uniform cleaning thanks to specially developed flat fan nozzles
- Effective cleaning of larger tanks through higher flow rates
- High operating reliability due to robust drive unit

We are committed to responsibility and sustainability. Our products support you on your way to achieve your own sustainability goals.