



# OUTOTEC EDMESTON SX TROUGH DISTRIBUTOR

All Outotec Edmeston SX® Trough Distributors are tailor-made for the specific application, ranging from replacing aged cast iron distributors in old towers to distribution systems for high performance towers suitable for unstructured and structured packing. The Outotec Edmeston SX, with superior corrosion resistance, also offers numerous advantages over other alloy designs that secures high reliability and long service.

## BENEFITS

- Excellent corrosion resistance
- High reliability and safety
- Long lifetime
- Uniform acid distribution
- Open troughs facilitate acid distribution inspections

Outotec Edmeston SX stainless steel was introduced to the market by Edmeston in 1984. The introduction of the Outotec Edmeston SX equipment led to a paradigm change in the industry with equipment of reduced corrosion, prolonged life time, reduced maintenance and increased plant safety. The Outotec Edmeston SX still maintains the leading position as the number one, standard for comparison, top performing alloy, for sulphuric acid service.

- The density of irrigation points can be optimized to satisfy process requirements, normally up to 44 distribution points/m<sup>2</sup>
- The distribution points are evenly spaced over the packing surface ensuring a completely uniform distribution pattern
- Slot and orifice sizes will remain constant during the life time ensuring unchanged performance
- Acid is fed to the troughs through branch pipes directly from a header pipe without any complicated gate assemblies in the troughs, ensuring fast and easy installation, commissioning and cleaning
- As Outotec Edmeston SX has an extremely low corrosion rate, the acid quality will be improved and the distributor will not contribute to sulphate formation or build-up in the tower
- As the Outotec Edmeston SX distributors are very light compared to cast iron, installation is easy and loads on the tower are reduced
- As Outotec Edmeston SX distributors are maintenance free there will be no downtime, no need for a spares inventory and no maintenance costs
- Lifetime expectancy exceeds 20 years

The trough type distributor is normally chosen for high performance towers or when a high density of irrigation points is required. The distributor is typically designed with up to 44 points/m<sup>2</sup>. A recent development in design is the reduced number of troughs in combination with an improved irrigation point pattern. The spacing between the troughs has been increased leading to a more cost effective design and lower tower pressure drop, maintaining a completely uniform acid distribution pattern.



## Outotec

Outotec develops leading technologies and services for the sustainable use of Earth's natural resources. Our 4,000 top experts are driven by each customer's unique challenges across the world. Outotec's comprehensive offering creates the best value for our customers in the mining, metal, and chemical industries. Outotec had sales of approximately EUR 1.2 billion in 2019, and its shares are listed on NASDAQ Helsinki.

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