

Noram SX™ Acid Distributors

Noram SX™ is the trademark for the austenitic stainless steel, UNS S32615, which was developed by Sandvik in Sweden specifically for the use in hot concentrated Sulphuric Acid. SX steel is considered the benchmark in sulphuric acid service with over 25 years of unparalleled performance offering numerous advantages over other materials of construction.



The purpose of the acid distributor is to distribute acid uniformly at the top of the tower for optimum absorption efficiency of the packing. The acid distributor should be able to operate continuously and reliably for long periods, at varying loads, without becoming plugged, creating acid spray or affecting tower pressure drop. Installation should be easy, maintenance should be low. Finally a cost effective, long service life is desired.

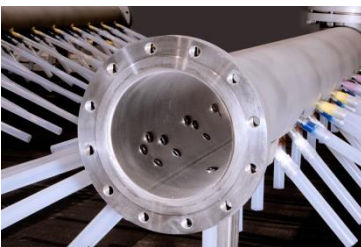


All acid plants and towers are unique, and that is why not all these demands can be satisfied with one and the same distributor. Depending on the specific operational data, required performance and cost, varying demands is set for the acid distributor. By evaluating each individual case the most effective distributor solution meeting any client's requirements can be proposed.

The **Noram SX™ Pipe acid distributor** is a cost effective design with very reliable performance. An acid header and pipe arms with orifices distributes the acid on top of the packing. Attention is paid to minimize gas velocity and acid spray formation. The design permits a very easy installation and is particularly suitable for replacement of old acid distributors.



The **Noram SX™ Trough acid distributor** is a high efficiency design with very uniform and well dispersed acid distribution. Troughs with evenly spaced downcomer tubes distribute the acid through gravity flow into the packing for optimum performance and minimal spray formation. The design prevents debris in the acid from obstructing the downcomer tubes and the acid flow in the troughs can be inspected during operation. It is particularly suitable for large and high performance towers.



The **SMART™ acid distributor** is a proprietary, multipurpose design comprised of radial pipes equipped with FEP downcomer tubes. The design provides a flexible, uniform acid flow, minimizing gas flow restriction and acid spray formation. Particularly suitable for new towers where external inspection ports can allow inspection and cleaning of the distributor without tower entry.

All main parts of the distributors are manufactured from NORAM SX™ resulting in an extremely low corrosion, lightweight equipment with service lives of 20+ years.