



MECS® ZECOR® UNIFLO® ACID DISTRIBUTORS

MECS® ZECOR® UNIFLO® ACID DISTRIBUTORS ENSURE OPTIMUM ABSORPTION EFFICIENCY, MINIMUM MIST GENERATION AND MAXIMUM SERVICE LIFE OF DOWNSTREAM EQUIPMENT.

MECS, Inc. (MECS) has provided the sulfuric acid industry with high-performance acid distribution systems for decades. Embodied in the latest design iteration of the UniFlo® distributor are the newest MECS® ZeCor®-Z and ZeCor®-310M corrosion-resistant alloys.

To achieve cost efficiency and reduce gas velocity, MECS® technologies reduces the number of required trough rows in your tower and achieves high absorption efficiency and lower pressure drop. A set of uniquely designed and patented gate assemblies in each trough allows for quick, easy flow adjustment. These adjustments can be made in minutes without replacing the orifice plates. The result is a distributor with continuous and extremely uniform acid distribution—with the added benefits of quick setup, flow calibration and faster field installation.

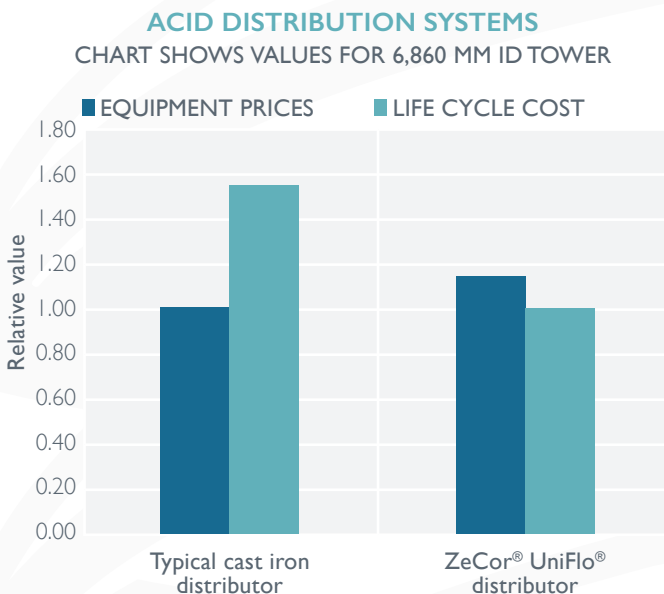
MECS materials and process experience make the difference.

FEATURES AND BENEFITS:

- Uniform acid distribution for higher efficiency and less pressure drop
- Enhanced tower performance by eliminating gas channeling and SO₃ slippage
- Resistant to sulfuric acid corrosion, velocity-induced erosion and plugging
- Lighter weight allows for ease of field installation
- Adjustable gate assemblies result in fast setup and calibration
- Open troughs make accurate visual inspection possible
- Less maintenance results in lower life cycle costs
- Available in corrosion-resistant ZeCor®-Z and ZeCor®-310M alloys
- Proven design—hundreds of successful installations worldwide



RELATIVE VALUE PROPOSITION



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WHY ENGINEERS SPECIFY ZECOR® UNIFLO® DISTRIBUTORS

The UniFlo® distributor is lightweight and can be easily installed by plant maintenance personnel. The wider and deeper trough bodies reduce acid velocities to a minimum, allowing for smooth acid flow. The UniFlo® distributor is available in ZeCor®-Z and ZeCor®-310M alloys to meet specific customer design needs. These alloys exhibit corrosion rates of less than 0.0254 mm/yr under normal operating conditions in 93% to 99% strong sulfuric acid. When properly operated and maintained, equipment life of 20+ years is expected.

UniFlo® distributors are designed for distribution patterns of 43 pts./m². This allows for complete coverage over the entire tower cross section, including the tower perimeter. This coverage insures optimum tower performance.

To date, MECS has hundreds of UniFlo® acid distributors installed worldwide, and this same UniFlo® design is used in all new MECS acid plants. High pressure drop, sulfate buildup, gas channeling, mist carryover and SO₃ slippage can all be virtually eliminated by using this high-value-added technology in your acid plant.



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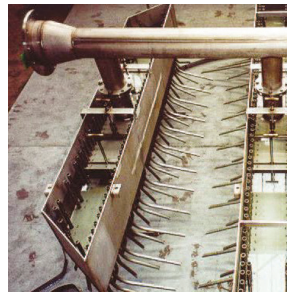
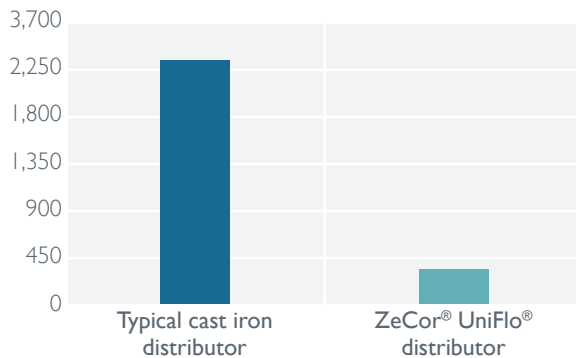
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COMPARABLE EQUIPMENT WEIGHT (KG)

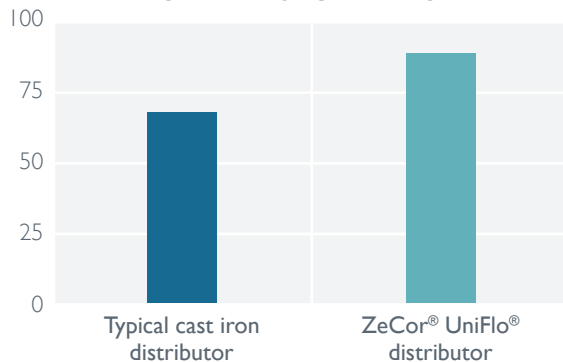
CHART SHOWS VALUES FOR 6,860 MM ID TOWER



SHOP
TRIAL FIT

OPEN AREA IN TOWER (%)

MAXIMIZING OPEN AREA REDUCES PRESSURE
DROP AND MIST GENERATION



INSTALLED
UNIFLO®

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