

PTA Hydrogenation Reactor Outlet Multi-Arm, Stacked- Ring Filter

A SUPERIOR DESIGN FOR SUPERIOR RESULTS.

Koch Technology Solutions (KTS) has developed a new type of outlet filter for PTA hydrogenation reactors. The previous design utilizes a single stack of rings, which is durable in the harsh environment, but still suffers from some erosion over time and needs maintenance. Alternative options feature wedge-wire screens on multiple arms, which are less robust and limit the service life of these filters. The new KTS filter combines the best of each design to improve both performance and lifespan.

BENEFITS OF THE NEW DESIGN.

Our proprietary filter design utilizes field-proven, stacked-ring construction combined with multiple arms to offer significant benefits over other filters on the market:

- **Superior Performance:** Improved flow delivers better utilization of the catalyst versus single-outlet filters
- **Longer Service Life:** Durable design outlasts wedge-wire filters
- **Simplified Maintenance/Replacement:** The overall filter is smaller, making it easier to handle
- **Cost Savings:** The filter's reduced size decreases maintenance costs and the material cost of rings and rods is reduced by approximately 60%
- **Comparable Installation Costs:** The total cost of installation is similar to the existing single-outlet filter



KTS can supply the improved filter as part of our license package for new PTA plants, or to existing operators as a retrofit.

To learn more,
contact us by visiting
kochtechsolutions.com/contact

We have been continually advancing our PTA technology to meet the growing needs of the industry and are currently offering our 5th generation PTA technology.



Performance Comparison Of Designs.

Our new multi-arm, stacked-ring filter provides improved flow to deliver better utilization of the catalyst versus single-outlet filters.

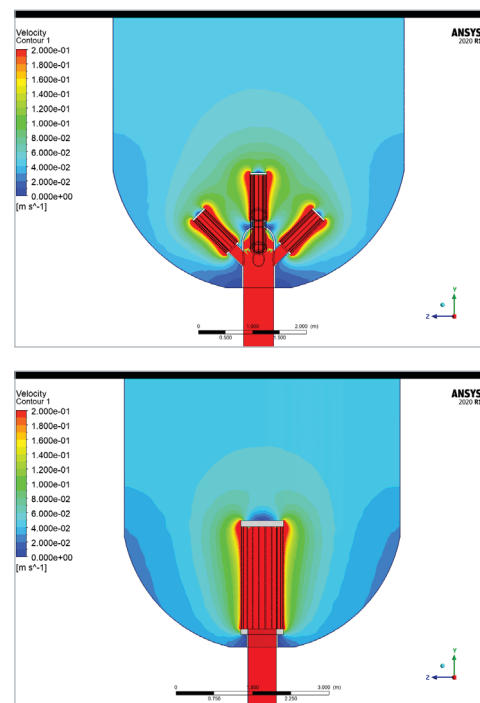
PTA TECHNOLOGY.

KTS is a global leader in technology-based solutions for the PTA industry. We license process technology, operate world-class R&D facilities, and possess a unique range of PTA-focused scientific, engineering and manufacturing skills. With 55 million annual tonnes of terephthalic acid capacity licensed around the world, representing 71 percent of all licensed capacity, KTS has the knowledge and experience that can make a significant difference in your business.

A Koch Engineered Solutions Company.

Koch Technology Solutions (KTS, formerly INVISTA Performance Technologies) is the licensing arm of Koch Engineered Solutions (KES). KTS' heritage stretches back to the beginning of the polyester industry via our predecessor companies, ICI and DuPont, and continues to this day.

KES is a growing family of companies—a community of industry experts—that serves customers with innovative, engineered-to-order solutions. Our future is in the development of transformational connected product platforms that integrate equipment, data analytics, closed-loop controls, and services. By harnessing the expertise and resources of the KES family of companies, we can offer customers direct access to commercial excellence, operational excellence, innovation, and talent that is unrivaled in the industries we serve.



**GLOBAL
REACH**

KES has locations in 25 countries, with more than 5,000 employees worldwide.

KOCHTM
TECHNOLOGY SOLUTIONS

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