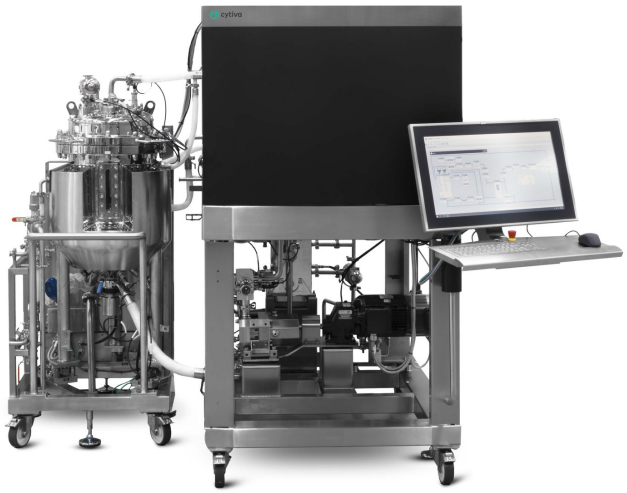
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ASIA EDITION

Cytiva introduces India-made filtration system for biopharma scale-up in Asia Pacific

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Launching first in Asia Pacific, the tangential flow filtration system lets manufacturers expand capacity while using the same automated workflow from process development through GMP production.



Cytiva, a Danaher company and a leader in the life sciences industry, is introducing its next-generation tangential flow filtration (TFF) system to help biopharma manufacturers streamline downstream processing from development through GMP manufacturing. The new standardized platform built on UNICORN software combines automation, modularity, and scalability. The system simplifies technology transfer, reduces operational risk and process variability, and minimizes the need for custom-built systems and process re-engineering, helping customers start faster and scale with confidence.

Developed and manufactured at Cytiva's Custom Engineering site in Pune, India, the system brings together local engineering expertise and Cytiva's global bioprocessing capabilities. It is designed for emerging biotech companies, vaccine and biosimilar manufacturers, plasma producers, and contract development and manufacturing organizations (CDMOs) seeking solutions that can scale with their evolving production needs. The system is launching initially across Asia Pacific in response to growing demand for locally developed solutions, enabling Cytiva to respond more effectively to needs across the region.

Madhusudan Jugdar, Director, Technical Engineering, Cytiva, says: "Scaling a TFF process should not mean starting over. We designed this system so manufacturers can use a familiar automated workflow from development into GMP production and add capacity as their needs grow. This makes scale-up simpler and gives customers greater flexibility as their manufacturing requirements evolve."

Key capabilities:

- **Run processes with greater consistency:** Automated ultrafiltration/diafiltration (UF/DF) and microfiltration (MF) workflows support consistent process execution, while UNICORN software provides standardized control across TFF and chromatography systems.
- **Scale without redesigning workflows:** A common software environment simplifies operator training and process transfer without re-engineering equipment or workflows.
- **Add capacity as requirements grow:** Flexible 50L, 100L, 200L, and 500L tank configurations, sensor options, and added capabilities allow customers to invest incrementally as manufacturing needs evolve.
- **Support a broad range of applications:** The system supports microfiltration, viral vector, and shear-sensitive applications, with an optional hollow fiber setup and dedicated flux control.
- **Use cleanroom space efficiently:** A compact system design helps customers maximize valuable manufacturing space.

The automated TFF system is available in 1.0- and 1.5-inch configurations for customers across Asia Pacific, with 0.75- and 2.0-inch configurations offered as custom options.