

*Single-Use
Virus Filtration
Controller*



*Simply reliable and
flexible virus filtration*



VANTIJ[®] **SU-VFC**

Built For You.

Asahi Kasei Bioprocess is dedicated to unlocking efficiencies and driving productivity within your biopharmaceutical and plasma derivative virus filtration processes. We also understand that the adaptability and reduced capital expense afforded by single-use systems are preferred in many facilities.

Virus safety is a fundamental regulatory requirement for mammalian cell-based or plasma-based protein therapeutics.

By uniting single-use technology with our virus safety know-how, we can help you achieve peace of mind through the implementation of our tried-and-true Planova™ 15N, 20N, 35N, S20N, FG1, or BioEX filters in a simple and flexible manner.



Compatible with 1.0 m² or 4.0 m² Planova™ 15N, 20N, 35N, S20N, FG1, or BioEX filters (see page 8 for details)





Single-Use Means Flexibility & Reliability

In today's clinical and multi-product manufacturing facilities, having flexibility for fast changeover is paramount. To meet these demands, Asahi Kasei Bioprocess has pushed its virus filtration innovations even further into single-use formats that will deliver increased:

1 Product Safety

- » Dramatic reduction in product cross-contamination risk
- » Automated system mitigates risk of operator error

2 Efficiency and Flexibility

- » Product/batch changeover time eliminated, resulting in greater capacity
- » Versatile equipment can be used for multiple products
- » Reduced water consumption (no cleaning)

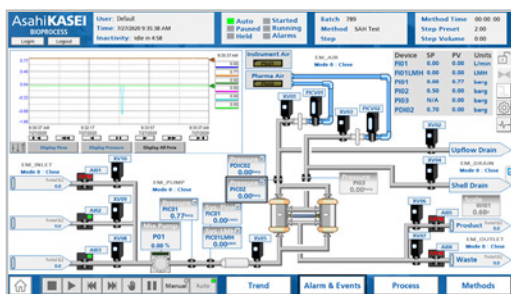
3 Operational Cost Savings

- » Lower initial investment in capital equipment
- » Eliminating costs of sterilization and cleaning, planning, validation and execution
- » Reduced maintenance

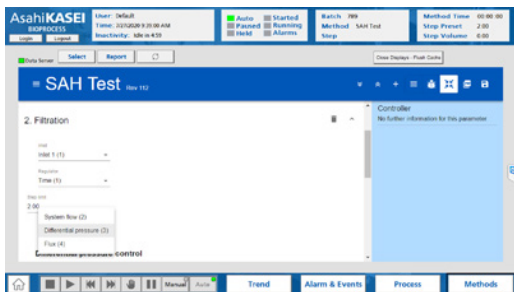


Bold Design, Simple Functionality

With a footprint of a modest 712 mm x 1067 mm (28 in. x 42 in.), the VANTIJ® SU-VFC can be installed in almost any downstream processing area and is fully 21 CFR Part 11 compliant. Universal gamma-irradiated tubing sets can be used with our Planova™ 15N, 20N, 35N, S20N, FG1, or BioEX filters. By incorporating the capability to perform the visual leakage test (VLT), the Planova SU-VFC permits simplified implementation of VANTIJ filters in your process.



Process Control Screen



Filtration Selection Screen

Sample Operational Program

- » Install tubing set
- » Tare pressure sensors
- » Pause
- » Prime all inlets
- » Prime pre-filter (optional)
- » Flowmeter verification (optional)
- » Pre-use VLT
- » Pre-use flush upflow
- » Pre-use flush filtrate
- » Filtration
- » Recovery flush (optional)
- » Post-use VLT
- » Shell drain

Engineered to accommodate your single-use bags – across a wide spectrum of batch sizes – the VANTIJ® SU-VFC helps you run your viral clearance step in a safe and efficient manner, today and in the future.

Mitigate Risk with Intuitive, Customized Automation

The VANTIJ® SU-VFC includes several risk-mitigating features and design elements to ensure that your high-value biopharmaceutical is safely, reproducibly and reliably filtered batch after batch. OCELOT™ System Control - our universally compatible automation platform - allows for intuitive configuration of all virus filtration process steps.

Specialized

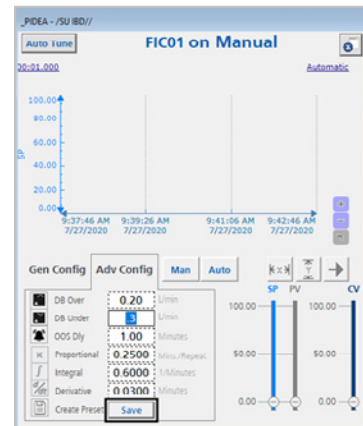
- » Each system is built to manage your critical process conditions
- » Settings, helper text and key process parameters can all be customized to create a unique user experience
- » Designed to be simple and straightforward

Seamless Integration

- » OPC-ready architecture plugs into your existing DCS, OPC Server or Historian for batch monitoring and control
- » Browser-based to allow remote method configuration and review of batches, even while the system is in use

Flexible Yet Repeatable

- » Recipe configuration, report templates, and trend displays allow daily customization of system operations
- » Default parameters, favorite steps, chart presets and report templates allow for easy repeat use
- » Point-of-use scale up/scale down through Control Parameter functionality



Presets can be saved from the process control screen for later use in the method.

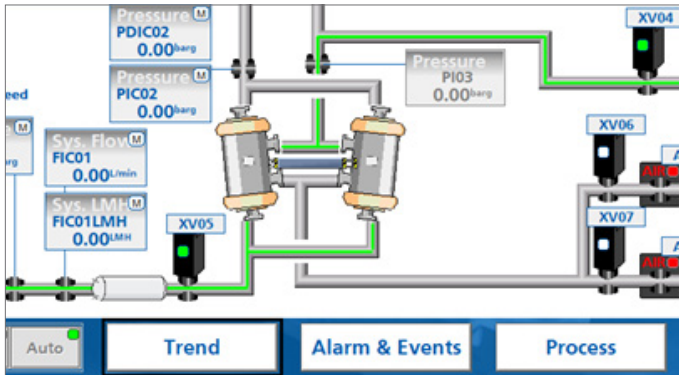


Autotuning simplifies control and ensures robust and repeatable processing.



Streamlined Integrity Testing

The visual leakage test (VLT) at a 10° tilt can be performed both pre-use and post-use* to confirm the absence of pinholes and other membrane damage. With shell side filled with purified water and hollow fibers pressurized, the filter is observed for the absence of continuous bubbling.



Positioning filters with a 10° tilt ensures hollow fibers are submerged so possible bubbling can be observed.

Our automation is built to your specifications and will work with existing plant-wide systems.

Automation of the VLT pressurization step has **major benefits:**

- » Pressurize filter to correct level without risk of overpressurization
- » Repeatability – conducted the same EVERY time, independent of operator
- » Mandatory step cannot be skipped
- » Traceability as pressurization data and operator Pass/Fail determination is captured in secure batch record



Reliable Planova filtration for trusted repeatability.

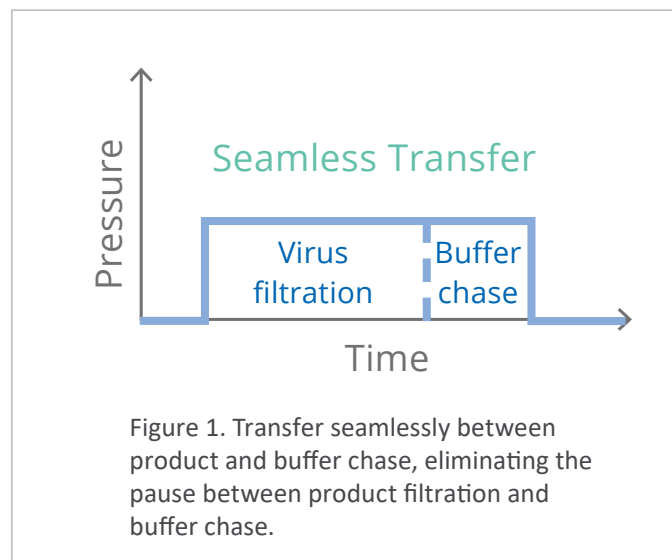
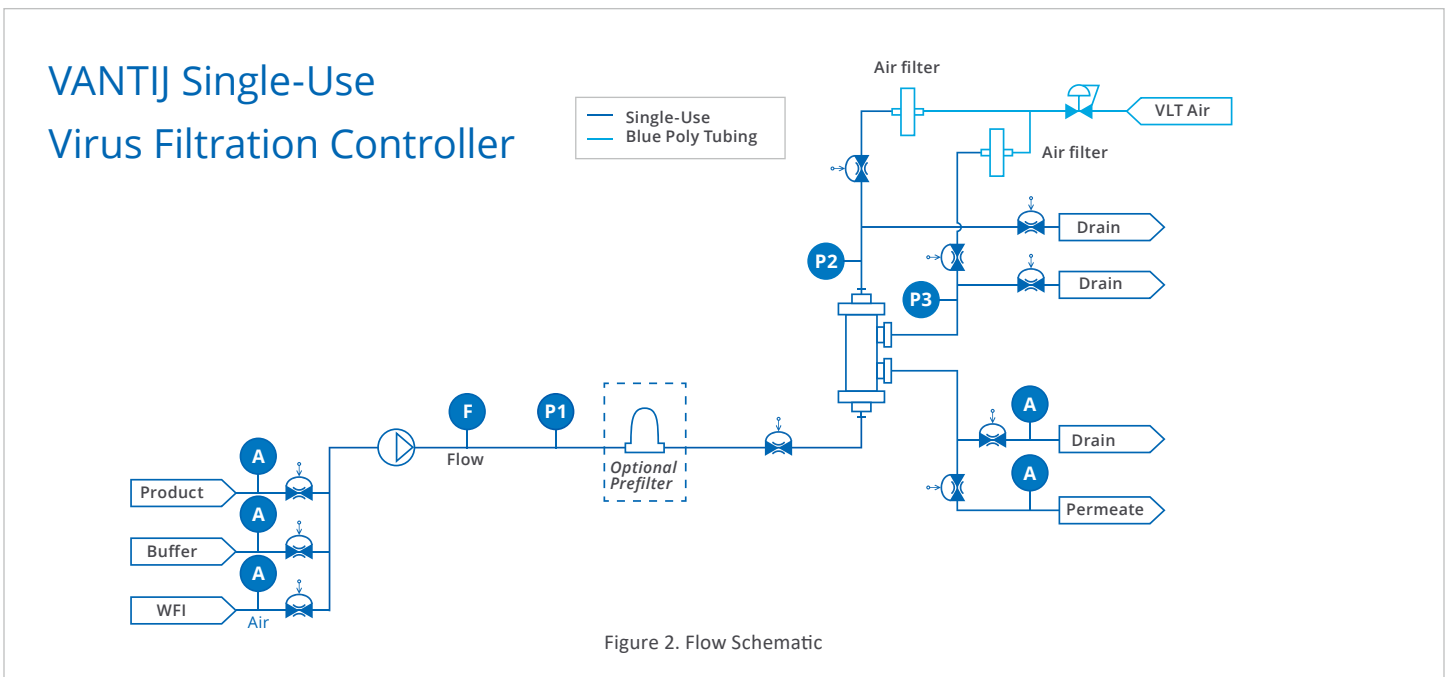


Figure 1. Transfer seamlessly between product and buffer chase, eliminating the pause between product filtration and buffer chase.

* Post-use gold particle test (GPT) is also required for Planova™ 15N, 20N and 35N filters.

How VANTIJ® SU-VFC Works



Product Features

- » Dimensions: modest 712 mm (28 in.) x 1067 mm (42 in.) x 2083 mm (82 in.)
- » Operating system flow rate: approx. 20 to 1200 L/h
- » Maximum operating pressure: 4.0 barg at 40° C
- » Universal, gamma-irradiated tubing set
- » C-Flex® thermoplastic elastomer (TPE) tubing; braided and unbraided
- » Connections: Three (3) inlets and four (4) outlets
- » Product feed: By onboard single-use quaternary diaphragm pump
- » Control method: Filter differential pressure control or flow rate control
- » Operator interface: Local 19" touchscreen display
- » Software compliance: 21 CFR Part 11 compliant
- » Qualifications: IQ/OQ package
- » EU Declaration of Conformity (for European markets) available



Product Ordering and Support Services

Operating Ranges

The VANTIJ® SU-VFC is designed for the following filters:

Filter Type	Number	Effective Surface Area
Planova 15N, 20N	1 or 2	1.0 m ²
	1 or 2	4.0 m ²
Planova 35N, BioEX	1 or 2	1.0 m ²
	1	4.0 m ²
Planova S20N	1 or 2	1.0 m ²
	1 or 2	4.0 m ²
Planova FG1	1	1.0 m ²

Ordering information

Catalog No.	Product Description
SU-VFC-1F	VANTIJ SU-VFC (one filter)
SU-VFC-2F	VANTIJ SU-VFC (two filters)
SU-VFC-6F	VANTIJ SU-VFC (six filters)
TS-SUVF-311	1 x 1.0 m ² SUVF Tubing Set Kit
TS-SUVF-321	2 x 1.0 m ² SUVF Tubing Set Kit
TS-SUVF-314	1 x 4.0 m ² SUVF Tubing Set Kit
TS-SUVF-324	2 x 4.0 m ² SUVF Tubing Set Kit

Global Offices

North and South America

Glenview, IL, USA
Tel: +1-833-457-2522
Fax: +1-847-556-9701

Email: info.us@ak-bio.com

Europe

Cologne, Germany
Tel: +49-221-995007-59
Fax: +49-221-9950077-59

Email: info.eu@ak-bio.com

India and Southeast Asia

Mumbai, India
Tel: +91-22-6710-3962
Fax: +91-22-6710-3979

Email: info.jp@ak-bio.com

East Asia and Oceania

Glenview, IL, USA
Tel: +1-833-457-2522
Fax: +1-847-556-9701

Email: info.jp@ak-bio.com

China

Shanghai, China
Tel: +86-(0)21-6391-6111
Fax: +86-(0)21-6391-6686

Email: info.jp@ak-bio.com

Technical Client Services

Technical Client Services (TCS), is a customer-centric interface to our product and science experts. Our TCS team will guide your process and engineering needs as your personal liaison for inquiries.

Contact us to learn more about how TCS can support your virus filtration and downstream processing equipment needs.

Asahi Kasei Bioprocess America, Inc.

Technical Client Services
+1 833-HLP-AKBA (457-2522)
TCS.support@ak-bio.com
www.ak-bio.com

Technical Support Network

A reliable technical support network is available throughout North and South America, Europe and Asia.

Warranty

We offer an extendable 1-year warranty, service contracts and a personalized level of service for peace of mind and timely support when you need it.

[REQUEST A QUOTE >](#)