



sartorius stedim
biotech

Jumbo Star The New Filter Generation



turning science into solutions

Modular Filter Cartridge Construction

Structural integrity

In addition to ease of handling, the new Jumbo construction provides better mechanical stability of the filter system and can withstand back-flushing. The adapter joints between the modules are constructed to meet the most stringent requirements of Food and Beverage applications.

Jumbo Star filter and FDA requirements

All materials used for the construction of Jumbo Star filter meet FDA requirements for use in food and beverage applications. You can choose a wide selection of filters for the different application.

Applications

Filtration of wine and sparkling wine

Jumbo Star filter cartridges are ideally suited for the filtration of wine and sparkling wine.

Typical applications for Jumbo Star in wineries:

- Prefiltration step (last cellar filtration) with Sartoclean SC 30
- Prefiltration with Sartoclean SC 12 upstream of membrane filtration
- Clarification with Sartopure PP2

Benefits:

- Easier to handle and less expensive than pad filters
- Reduces the cost of your operations
- Ensures exact retention ratings
- Requires less rinse water
- Compact and closed filter system
- Easy to sterilize

Filtration of water

Sartorius Stedim Biotech offers a variety of Jumbo Star filter cartridges made to deliver the specific results desired for the filtration of water. Two types of Jumbo filter cartridges are available for particle removal specifically in the range from 0.65 µm to 20 µm and for clarification and reduction of suspended particles.

- Sartopure PP2
- Sartopure GF Plus

Both types do the "heavy work" of removing particles, ensuring an optimal service life of the downstream membrane filter system.

Filtration of beer

Sartorius Stedim Biotech provides a Jumbo Star filter cartridge optimally designed for beer filtration.

- Sartopure PP2

Sartopure PP2 is the ideal choice for particle removal downstream of diatomaceous earth | PVPP filters. This cartridge is available in retention rating of 8 and 20 µm for reliable particle removal. Even under the most severe conditions, they trap any particles that might have broken through upstream filtration stages, thus ensuring a particle-free filtrate.





The materials of construction of the Jumbo Star filter offer excellent chemical compatibility and thus allow CIP cycles.

Filtration of spirits

Sartorius Stedim Biotech supplies two Jumbo Star filter types for the filtration of spirits:

- Sartopure PP2
Specifically for particle removing filtration
- Sartopure GF Plus
For clarification and chill haze removal



Jumbo Star filter cartridges are widely used to clarify cloudy spirits. The closed filter system avoids the oxidation of your product.

Air Venting for reservoir and storage tank

The Jumbo Star Sartopure GA is designed for all venting applications, that do not necessarily require an integrity testable membrane filter cartridge.



Jumbo Star Sartopure GA offers an optimised ratio of air flow rate and retention as well as a great hydrophobic.

Featuring a retention of 0.2 μm for gas Jumbo Star Sartopure GA efficiently protects stored products in the food & beverage industry. Special reservoir and storage tank with a great tankage.



Sartorius Stedim Biotech – Your Knowledgeable Partner for Filtration

Quality from start to finish!
All filter cartridges are required to pass stringent in-process quality control tests.

Completely traceable documentation of the entire manufacturing process of Jumbo cartridges is guaranteed by our stringent quality assurance policy that is certified for compliance with ISO 9001. This results in consistently high product quality ranging from raw materials to the finished product. Establishing a good partnership with our customers is our No. 1 priority. That's why Sartorius Stedim Biotech offers not only excellent products, but also an international customer support service network that will make your daily work easy.

Our experienced engineers are ready to assist you in solving your filtration problems.



Ordering information

Cartridge type	Adapter type	Retention rating (µm)	1-high (10")	2-high (20")	3-high (30")	4-high (40")
Sartoclean SC	40	1.20	5634003J1	5634003J2	5634003J3	5634003J4
	40	3.00	5634002J1	5634002J2	5634002J3	5634002J4
Sartopure PP2	40	0.65	5594005J1	5594005J2	5594005J3	5594005J4
	40	1.20	5594003J1	5594003J2	5594003J3	5594003J4
	40	3.00	5594002J1	5594002J2	5594002J3	5594002J4
	40	8.00	5594001J1	5594001J2	5594001J3	5594001J4
	40	20.00	5594020J1	5594020J2	5594020J3	5594020J4
Sartopure GF Plus	40	0.65	5554005J1	5554005J2	5554005J3	5554005J4
	40	1.20	5554003J1	5554003J2	5554003J3	5554003J4
Sartopure GA	40	0.20	5594007J1----GA		5594007J2----GA	

Jumbo Star Filter Cartridge ...the New Filter Generation

Features and benefits

- Highest flow rates
- Highest dirt holding capacity
 - improved service life
- Modular filter design for easy adaptation and handling
- Improved filter construction for highest thermal and mechanical stability
- Able to handle a broad range of flow requirements

Improved overall design and construction

The large filter area and proprietary pleat design of Jumbo Star provides highest flow rates and total throughputs. Capable of flow rates ranging from 10.000 to 40.000 liter per hour, Jumbo Star filters are especially designed to match requirements for any large volume food and beverage filtration process. Jumbo Star filters feature up to 46 m² of filter area and thus can replace up to twenty four standard filter cartridges. The new modular filters are available in 10", 20", 30" and 40" height allow for easy adaptation into the system.

The rugged construction of Jumbo Star features unique combinations of polypropylene and glass fiber filter layers. This prevents breakthrough of particles, colloids and bio burden – providing maximum protection for downstream standard filters.

The unique, modular construction of the Jumbo Star filter requires much less set-up work and time than standard filter cartridges technology.

The closed filter system of Jumbo Star allows ease of use and hygienic processing. Product losses and oxidation are also minimized as a result of this design.



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