

Pegasus™ Protect

VIRUS PREFILTER MEMBRANE IN KLEENPAK™ CAPSULES

Tailored tools for scale-up confirmation

Pegasus™ Protect virus prefiltration combines with Pegasus Prime virus filtration to deliver an innovative gamma-sterilized pre-filter and virus filter combination. Together, these can simplify process development, validation and operations while saving time and delivering improved process economy.

Process developers can quickly deliver a robust, scalable virus filtration process using a low sample volume, supporting successful virus validation. This choice supports clinical manufacturing with a solution that is easy to use and versatile enough to work alone or with integrated and automated single-use systems.

Features and benefits

Features	Benefits
Removes filter-plugging substances	Reduce plugging of Pegasus Prime virus filters <ul style="list-style-type: none">• Smaller virus filter sizing• Reduced cost of goods• Shorter processing times• Increased robustness to natural process fluid variation
The scale-up range provides a consistent prefilter to virus filter area ratio at all scales	Consistent performance <ul style="list-style-type: none">• Controlling scaling risks• Faster, simple scale-up and viral validation
Disposable capsule with ½ in. sanitary flange outlet	Easy to use <ul style="list-style-type: none">• Direct connection to Mini Kleenpak™ filterability tool containing Pegasus Prime virus removal media





Fig 1. Pegasus Protect virus prefilter membrane in Kleenpak capsules.

Scalable solutions

Prefiltration area and flowrate are critical variables that may affect the performance of Pegasus Protect prefiltration and Pegasus Prime virus removal filters when used in combination.

To control these variables, Pegasus Protect prefiltration media is available in a range of formats, designed to maintain a consistent prefilter to virus filter ratio. This control enables predictable and consistent performance at scales from initial Microdisc scale trials to clinical manufacturing.

	Area	Microdisc capsules	Area	Kleenpak capsules
Pegasus Protect prefiltration	3.9 cm ²		286 cm ²	
Pegasus Prime virus filter	2.8 cm ²		204 cm ²	
Area ratio	1.4 : 1		1.4 : 1	

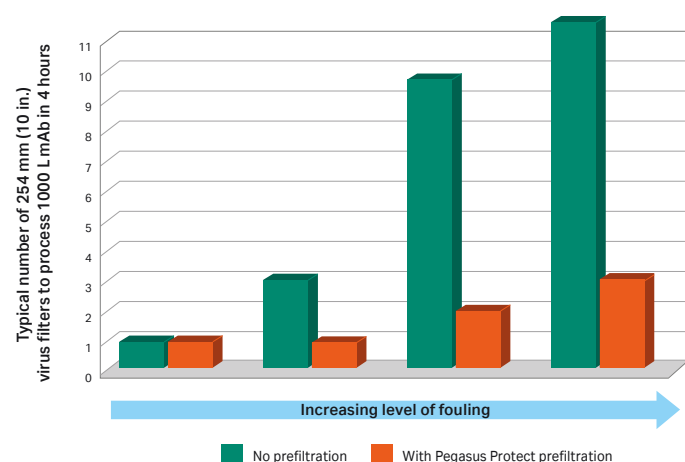


Fig 2. Impact of Pegasus Protect prefiltration on required virus filters per batch.

Specifications

Materials of construction

Filter membrane: Nylon
Support and drainage: Polyester
Core and cage: Polypropylene
Capsule hardware: Polyester

Retention ratings

Pore size : 0.2 µm nominal

Effective filter area (EFA) (nominal)

286 cm²

Operating parameters

Maximum temperature: 40°C
Maximum pressure: 4.1 bar (60 psi)⁽¹⁾
Maximum differential pressure: 4.1 bar (60 psi)⁽¹⁾

Recommended operating conditions

35 mbard (0.5 psid) or 2 mL/min water at 20°C⁽¹⁾

Steam autoclaving

Cumulative autoclave time: 16 hours at 125°C⁽²⁾
or 4 hours at 140°C

Typical hold-up volume (with air purge)

< 125 µL

Dimensions (nominal)

Length: 11.7 cm (4.6 in.)
Diameter including valves: 9.4 cm (3.7 in.)

Connection type

1 in. sanitary flange inlet
½ in. sanitary flange outlet

⁽¹⁾ When used with Pegasus Prime filters in Mini Kleenpak capsules at 2.1 bard (30 psid)

⁽²⁾ Laboratory tests (1-hour cycles). Contact us for recommended procedures
Warning: Kleenpak capsules must not be steam sterilized *in situ* by passing steam through under pressure

Ordering information

Description	Pkg	Product code
Kleenpak capsule with Pegasus Protect prefiltration media	1/pkg	KA1PRT18FT
Kleenpak capsule with Pegasus Protect prefiltration media, gamma irradiated	1/pkg	KA1PRT18FTR

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