

SERVO GUARD

CRITICAL CARE



HIGHLIGHTS

- For applications in respiratory care and anaesthesia
- Low and stable flow resistance in both dry and wet filter
- Built-in water trap to avoid increased flow resistance when used in the expiratory limb
- Bi-directional for ease of use
- Suitable for all patients
- HEPA (High Efficiency Particulate Air) filter
- Disposable - to be exchanged every 24 hours

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GENERAL INFORMATION

The Servo Guard® is a highly efficient single use bacterial and viral filter for application in respiratory care and anesthesia. The filter provides filtration for reducing possible cross contamination between patient and equipment.

An important advantage of the Servo Guard is that the filter provides high filtration at a very low and stable resistance, independent of wet or dry filter.

The built in water trap takes care of the condensed water and prevents increased flow resistance. This substantially reduces the work of breathing for the patient even if the filter has been used for many hours.

The Servo Guard contains a pleated hydrophobic membrane that acts as a liquid barrier. The filter housing is transparent to allow continuous inspection while in use. Servo Guard is bi-directional and can be used on both the expiratory and/or inspiratory limbs of the breathing circuits.

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TECHNICAL SPECIFICATION

Technical Specifications	
Dimensions	LxHxW = 92x89x66 mm incl. connection cones
Weight	<75 g
Internal volume	190 ml
Resistance:	
- Dry filter	<ul style="list-style-type: none"> - <75 Pa (0.75 cm H₂O) at 0.5 l/s - <150 Pa (1.5 cm H₂O) at 1 l/s - <330 Pa (3.3 cm H₂O) at 2 l/s
- Wet filter	<ul style="list-style-type: none"> - <100 Pa (1.0 cm H₂O) at 0.5 l/s - <200 Pa (2.0 cm H₂O) at 1 l/s - <450 Pa (4.5 cm H₂O) at 2 l/s - (Wet filter = 24 hours use at 10 l/min and 100% RH)
Filter medium	Hydrophobic HEPA filter (High Efficiency Particulate Air)
Pressure	Max. 15 kPa
Bacterial (BFE) efficiency ¹	>99.99 %
Viral (VFE) efficiency ²	>99.99 %
Quality check	Each filter is tested individually for filter effectiveness and leakage.
Connections:	
- Coaxial cone male/female	ISO M22/F15
- Cone female	ISO F22
Manufacture	Hygienically manufactured and packed.
Shelf life	3 years when properly stored in unbroken package
Material	Thermoplastic housing, hydrophobic glass fibre paper
References	¹ Nelson Laboratories. Bacterial Filtration Efficiency Test BFE No 142519, with test values >99.9999 % ² Nelson Laboratories. Virus Filtration Efficiency Test VFE No 131167, with test values >99.999 %

ORDERING INFORMATION

Servo Guard Bacterial/viral filter, 50 each 65 95 487

MAQUET

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