



## DAR™ FILTERS

Nellcor™  
Puritan Bennett™  
BIS™  
Mallinckrodt™  
DAR™  
Shiley™

### Better Performance, Better Protection

Filters help protect the safety of patients by removing bacteria and viruses before they enter the airway. If the airway is not adequately protected with a filter, there could be a greater chance the patient will develop a hospital-acquired infection.

Equally important, filters reduce the numbers of pathogens in the air that a patient exhales. This filtration of exhaled air helps protect the safety of:

- Staff
- Patients and visitors
- Equipment

#### ELECTROSTATIC FILTERS



ELECTROSTATIC FILTER,  
LARGE



ELECTROSTATIC  
FILTER, SMALL



ELECTROSTATIC FILTER,  
SMALL, ANGLED PORT

#### MECHANICAL FILTERS



MECHANICAL FILTER,  
LARGE



MECHANICAL FILTER,  
COMPACT



MECHANICAL FILTER,  
SMALL

Ventilator filters can be either **electrostatic** or **mechanical**.

The **electrostatic filter** uses positive and negative charges to attract and capture particles.

The **mechanical filter** uses a multilayered, pleated filtration medium. This medium provides greater filtration efficiency compared to electrostatic filters.<sup>1</sup>

DAR™ mechanical filters feature a pleated filter medium that significantly increases bacterial filtration efficiency.<sup>2</sup> These high-performing filters can reach an NaCl efficiency of greater than 99.97%.<sup>3</sup>

ELECTROSTATIC FILTERS			
	Large	Small	Small, Angled Port
Catalog Number	350U5865 (Without end-tidal CO <sub>2</sub> sampling port)	350U5879	350U19006
Quantity/Box	50	50	50
Recommended Tidal Volume	300-1500 mL	150-1200 mL	150-1200 mL
<b>Resistance to Flow at (ISO 9360)</b>			
30 L/min	0.7 cm H <sub>2</sub> O	0.7 cm H <sub>2</sub> O	0.8 cm H <sub>2</sub> O
60 L/min	1.6 cm H <sub>2</sub> O	2.1 cm H <sub>2</sub> O	2.2 cm H <sub>2</sub> O
90 L/min	2.8 cm H <sub>2</sub> O	3.6 cm H <sub>2</sub> O	3.8 cm H <sub>2</sub> O
<b>Filtration Efficiency</b>			
Bacterial	≥99.999%	≥99.99%	≥99.99%
Viral	≥99.99%	≥99.99%	≥99.99%
NaCl	≥99.592%*	≥97.100%*	≥97.100%*
Internal Volume	99 mL	37 mL	45 mL
Weight	35 g	19 g	20 g
Type of Filtration	Electrostatic	Electrostatic	Electrostatic

MECHANICAL FILTER				
	Small	Compact	Large	Large w/o gas sampling port
Catalog Number	351U5979	351U5878	351U5410	351U5856
Quantity/Box	50	50	50	50
Recommended Tidal Volume	150-1200 mL	200-1500 mL	300-1500 mL	300-1500 mL
<b>Resistance to Flow at (ISO 9360)</b>				
30 L/min	1.2 cm H <sub>2</sub> O	0.7 cm H <sub>2</sub> O	0.8 cm H <sub>2</sub> O	0.8 cm H <sub>2</sub> O
60 L/min	2.7 cm H <sub>2</sub> O	1.9 cm H <sub>2</sub> O	2.0 cm H <sub>2</sub> O	2.0 cm H <sub>2</sub> O
90 L/min	---	3.4 cm H <sub>2</sub> O	3.2 cm H <sub>2</sub> O	3.2 cm H <sub>2</sub> O
<b>Filtration Efficiency</b>				
Bacterial	≥99.99999%	99.9999%	≥99.99999%	≥99.99999%
Viral	≥99.997%	≥99.99%	≥99.99999%	≥99.99999%
NaCl	≥99.512%*	≥99.747% <sup>3</sup>	≥99.978%*	≥99.978%*
Internal Volume	42 mL	66 mL	92 mL	92 mL
Weight (approx.)	24 g	39 g	47 g	47 g
Type of Filtration	Mechanical	Mechanical	Mechanical	Mechanical

\*Internal testing Mirandola (various 2005-2008).

REFERENCES

1. Cann C, Hampson MA, Wilkes AR, Hall JE. The pressure required to force liquid through breathing system filters. *Anaesthesia*. 2006;61(5):492-497.
2. Wilkes AR. Measuring the filtration performance of breathing system filters using sodium chloride particles. *Anaesthesia*. 2002;57(2):162-168.
3. Nelson Laboratories Inc. Sodium chloride aerosol testing of breathing system filters (BSF). Lab No. 399951A. 1 Amended. January 2008.

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10-AW-7022 DR04710



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