



Medical

Posidyne® ELD Intravenous Filter Set



Air-eliminating filter set designed for 96-hour bacteria and endotoxin retention

Features

- ▶ Removes particles
- ▶ Reduces microorganisms and associated endotoxins
- ▶ Eliminates air
- ▶ Phthalate-free fluid path
- ▶ Slim housing profile

Benefits

- ▶ Allows for up to a 96-hour life on filter and set
- ▶ Reduces cost of IV therapy
- ▶ Minimizes nursing time and set manipulations
- ▶ Minimizes air emboli
- ▶ Suitable for paclitaxel delivery
- ▶ Easy to be taped in place

Inadvertent Contamination of Intravenous Infusion Solutions Can Have Serious Consequences

- ▶ Particulate contamination arises from a variety of sources, intrinsically in infusates and equipment or extrinsically due to manipulations.¹ Particles cause phlebitis on peripheral infusion lines and have serious systemic effects, damaging the lung and solid organs by irritation of the endothelium and by deposition in the microvasculature².
- ▶ Microbiological contamination of IV administration systems arises inadvertently due to manipulations³. Some bacteria can grow rapidly in infusion fluids, increasing the infection risk⁴.
- ▶ Endotoxins have serious effects on the inflammatory and coagulation systems. They are released by Gram-negative bacteria and have been shown to penetrate conventional IV filters⁵. Only filters that retain endotoxins can safely be used for more than 24 hours⁵.
- ▶ Entrained air can arise from infusion solutions degassing, incomplete priming or disconnections. Air can be particularly problematic on central lines, leading to air embolism, which can be fatal⁶.

Specifications

Filter Media

0.2 µm positively charged Nylon Posidyne® membrane

Filters and Tubing Extension

Non-phthalate, free of natural rubber latex

Usage Specifications

Single patient use up to 96 hours

Can be used with continuous infusions or intermittent infusions/injections

Dimensions (approximate)

Length = 6.5 cm

Width = 3.3 cm

Depth = 0.5 cm

Connectors

Male luer lock needle adapter and female luer lock inlet

Approximate Hold-up Volume

ELD96LL, ELD96LYL, ELD96LYLS, ELD96NT	1.0 mL
ELD96HF	4.0 mL
ELD96LLCE	2.6 mL
ELD96LYLE	2.8 mL + 0.3 mL for filter housing and extension tubing + y-site
ELD96LYSE	4.3 mL + 1.2 mL

Sterility

Sterile and non-pyrogenic fluid pathway

Maximum Flow Rate

Variants with standard extension tubing: approximately 21 mL/min*

Variants with microbore extension tubing: approximately 13 mL/min*

Maximum Working Pressure

1500 mm HG (approximately 30 psi, 2 bar)

Priming Volume

2 mL

*Tested with 0.9% saline solution at 1 m head height.

Ordering Information

Product Description	Reorder Code		Packaging (units/case)	
	USA	Europe	USA	Europe
With standard bore (3 mm) tubing		ELD96HF*		50
With microbore extension tubing	ELD96LL	ELD96LLCE*	48	50
With microbore extension tubing, Y injection site, and luer lock	ELD96LYL	ELD96LYLE*	48	50
With standard bore extension tubing, Y injection site, and luer lock	ELD96LYLS	ELD96LYLSE*	48	50
With integral luer lock connectors	ELD96NT	ELD96NTE	40	50

*with downstream slide clamp

References

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2. Lehr, H.A. *et al.* (2002) Particulate matter contamination of intravenous antibiotics aggravates loss of functional capillary density in posts ischemic striated muscle. *Am J Respir Crit Care Med*, 165:514-20.
3. Trautmann, M. *et al.* (1997) Bacterial colonization and endotoxin contamination of intravenous infusion fluids. *J Hosp Infect*, 37:225-36.
4. Richards, C. & Thomas, P. (1990) Use of endotoxin retentive intravenous filters with pediatric total parenteral nutrition solutions. *J Clin Pharm Ther*, 15:53-8.
5. Richards, C. & Grassby, P.F. (1994) A comparison of the endotoxin-retentive abilities of two '96-h' in-line intravenous filters. *J Clin Pharm Ther*, 19:199-202.
6. Coppa, G.F. *et al.* (1981) Air embolism: a lethal but preventable complication of subclavian vein catheterization. *JPEN J Parenter Enteral Nutr*, 5:166-8.



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