

A GOOD ALL-ROUNDER

The EPE series provides economical filtration with a high surface area and substantial flow potential, all while maintaining a low pressure drop. End-caps eliminate the need for gaskets and maintain the integrity of the pleat pack, further supported by the robust inner polypropylene core. The resilient media is versatile, suitable for applications ranging from borehole and river water to harsher chemicals.

For enhanced microbial protection, the EPE-AM variant incorporates advanced antimicrobial properties. This ensures superior performance by inhibiting the growth of bacteria and other microorganisms, making it ideal for sensitive applications. Tailored for use in private water applications, EPE-AM provides an extra layer of safety and reliability, extending the lifespan of the filter and maintaining water hygiene.



FEATURES & BENEFITS



- Almost 7 times the surface area of a depth cartridge.
- Pleated construction maximises the amount of filtration media, optimising service life.
- Thermally welded seams and end-caps maintain integrity.
- EPE 0.5 and 1 micron feature dual layer media ensuring efficiency and protects from premature binding.
- EPE-AM is infused with an antimicrobial agent to protect against bacteria growth.

TECHNICAL DATA



|                                               |                                |
|-----------------------------------------------|--------------------------------|
| Efficiency (%)                                | 90                             |
| Maximum Operating Pressure Differential (psi) | 4 bar at 21°C                  |
| Maximum Operating Temperature (°C)            | 38                             |
| Surface Area (m²)                             | 0.35 per 9¾"<br>1.21 per 9¾"LD |

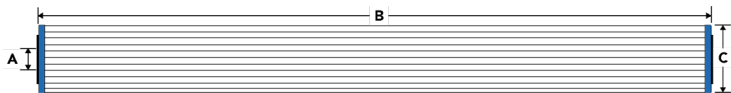
MATERIALS OF CONSTRUCTION



Media:

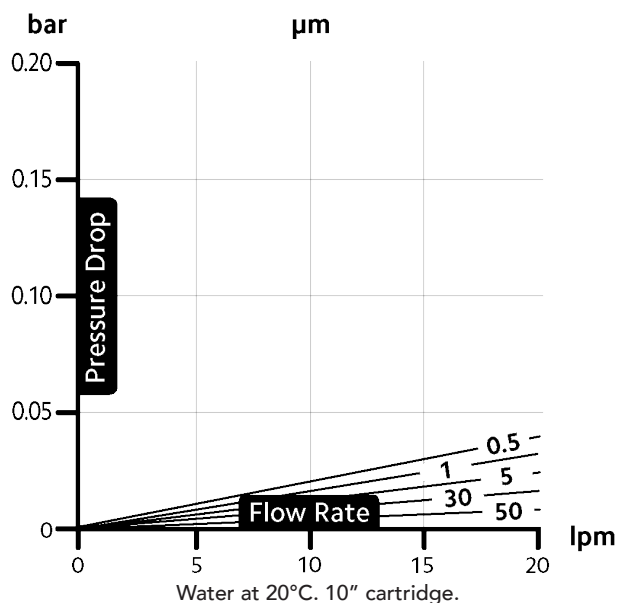
- EPE: Polyester
- Polyester & Polypropylene 0.5 & 1 micron
- EPE-AM: Polyester with Antimicrobial agent
- End-cap: Vinyl Plastisol
- Seal: Polypropylene

DIMENSIONS

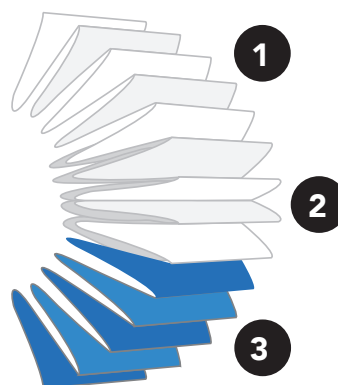


| Dimensions (mm) |    |      |     |
|-----------------|----|------|-----|
| Length (")      | A  | B    | C   |
| 4⅞              | 29 | 124  | 69  |
| 9¾              | 29 | 248  | 69  |
| 20              | 29 | 508  | 69  |
| 30              | 29 | 762  | 69  |
| 40              | 29 | 1016 | 69  |
| 9¾LD            | 29 | 248  | 115 |
| 20LD            | 29 | 508  | 115 |

## FLOW RATE



## MATERIAL FEATURES



- 1 EPE** - The durable, cleanable polyester media maximises surface area with a deep pleat construction.
- 2 EPE (0.5 + 1 micron)** - Efficiency achieved with inner polypropylene secondary layer.
- 3 EPE-AM** - Infused with an antimicrobial agent to protect against bacteria growth.

## ANTIMICROBIAL TESTING CRITERIA



| Microorganism                          | Cell Concentration                           |                                                  |                                                         | Inhibition rate (%) | Standard Requirements (%) |
|----------------------------------------|----------------------------------------------|--------------------------------------------------|---------------------------------------------------------|---------------------|---------------------------|
|                                        | Blank samples with '0' contact time (cfu/mL) | Blank samples after oscillation for 18h (cfu/mL) | EPE-AM media samples after oscillation for 18h (cfu/mL) |                     |                           |
| <i>Escherichia Coli</i> ATCC 25922     | 2.5x10 <sup>4</sup>                          | 2.0x10 <sup>7</sup>                              | 1.0x1.0 <sup>6</sup>                                    | 95                  | ≥70                       |
| <i>Staphylococcus aureus</i> ARCC 6538 | 2.5x10 <sup>4</sup>                          | 4.0x10 <sup>6</sup>                              | 2.2x10 <sup>4</sup>                                     | 99                  | ≥70                       |
| <i>Candida albicans</i> ATCC 10231     | 2.0x10 <sup>4</sup>                          | 1.8x10 <sup>6</sup>                              | 1.6x10 <sup>4</sup>                                     | 99                  | ≥60                       |
| <i>Klebsiella pneumoniae</i> ATCC 4352 | 2.5x10 <sup>4</sup>                          | 2.0x10 <sup>7</sup>                              | 7.6x10 <sup>2</sup>                                     | 99                  | /                         |

## ORDERING GUIDE



| Code   | Micron (µm)               | Length (")                                                                                                         |
|--------|---------------------------|--------------------------------------------------------------------------------------------------------------------|
| EPE    | 0.5, 1, 5, 10, 20, 30, 50 | 4 <sup>7</sup> / <sub>8</sub> , 9 <sup>3</sup> / <sub>4</sub> , 20, 30, 40, 9 <sup>3</sup> / <sub>4</sub> LD, 20LD |
| EPE-AM | 5                         |                                                                                                                    |

e.g. EPE-1-93/4