

# BIOLOGICAL RETENTION

## Virus retention

| Technology: | Capillary ultrafiltration membranes |                            |                      |
|-------------|-------------------------------------|----------------------------|----------------------|
| Products:   | 10" UF DuoFlow                      | WaterPurifier              | POU UF Subassemblies |
|             | 10" UF FullFlow                     | WaterPurifier <sup>+</sup> |                      |

|          | Microorganism        | Laboratory              | Microbial retention   | Width microorganism* (µm) | Length microorganism* (µm) |
|----------|----------------------|-------------------------|-----------------------|---------------------------|----------------------------|
| Viruses  | MS2 phage            | BioVir Laboratories, CA | > 99.99% (> log 4)    | 0.025                     | 0.025                      |
| Bacteria | Klebsiella terrigena | BioVir Laboratories, CA | > 99.99999% (> log 7) | 0.3 - 1                   | 1 - 6                      |
| Cyst     | Cryptosporidium      | NSF International, MI   | > 99.999% (> log 5)   | 4 - 6                     | 4 - 6                      |

## Bacteria retention

| Technology: | Capillary microfiltration membranes |                      |                          |                      |
|-------------|-------------------------------------|----------------------|--------------------------|----------------------|
| Products:   | 10" MF DuoFlow                      | Medical ShowerFilter | WaterFilter              | POU MF Subassemblies |
|             | 10" MF FullFlow                     | Medical TapFilter    | WaterFilter <sup>+</sup> |                      |

|          | Microorganism          | Laboratory            | Microbial retention  | Width microorganism* (µm) | Length microorganism* (µm) |
|----------|------------------------|-----------------------|----------------------|---------------------------|----------------------------|
| Bacteria | Klebsiella terrigena   | Vitens Laboratories   | > 99.9999% (> log 6) | 0.3 - 1                   | 1 - 6                      |
|          | Legionella pneumophila | Vitens Laboratories   | > 99.9999% (> log 6) | 0.3 - 0.9                 | 2 - 20                     |
|          | Pseudomonas diminuta   | Vitens Laboratories   | > 99.9999% (> log 6) | 0.5 - 1                   | 1.5 - 5                    |
| Fungi    | Aspergillus fumigatus  | Vitens Laboratories   | > 99.99% (> log 4)   | > 2                       | > 2                        |
| Cyst     | Cryptosporidium        | NSF International, MI | > 99.99% (> log 4)   | 4 - 6                     | 4 - 6                      |

\* From Bergey's manual of Systematic Bacteriology, Volume 1, Editors: N.R. Krieg and J.G. Holt

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