

# NETB 2024/03 Point-of-Use Filter Compliance Check List

| Selection Criterion                        | Verification Question                                                                                                                                                                                                                                                                                                                                                                | Yes                      | No                       |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|
| ASTM F838 Validation                       | <p>Has the filter achieved total retention of <i>Brevundimonas diminuta</i> in accordance with ASTM F838?</p> <p>Proves true 0.2 µm sterilising grade performance. Confirms membrane integrity and manufacturing quality, ensuring consistent bacterial retention and compliance with internationally recognised standards for patientcare environments.</p>                         | <input type="checkbox"/> | <input type="checkbox"/> |
| Retention of Clinically Relevant Pathogens | <p>Has the manufacturer demonstrated total retention of Legionella, Pseudomonas, and NTM over the full life cycle under hospital conditions?</p> <p>Validates sustained performance beyond ASTM F838. Confirms continuous pathogen retention despite variable flow, temperature, and pressure - critical to prevent early degradation or breakthrough before filter replacement.</p> | <input type="checkbox"/> | <input type="checkbox"/> |
| Operational Condition Validation           | <p>Was life cycle validation performed under real hospital conditions including intermittent use, pressures 0.5–5 bar, and temperatures between 10–70 °C?</p> <p>Demonstrates reliable retention, mechanical stability, and flow performance under operational stresses. Provides confidence the filter performs effectively in dynamic health-care systems.</p>                     | <input type="checkbox"/> | <input type="checkbox"/> |
| Leak-Free Manufacturing                    | <p>Has each filter undergone integrity testing (e.g. air pressure test) to confirm no membrane leaks or defects?</p> <p>Prevents defective units from being used, which could allow dangerous bacteria to bypass the filter.</p>                                                                                                                                                     | <input type="checkbox"/> | <input type="checkbox"/> |

| Selection Criterion                   | Verification Question                                                                                                                                                                                                                                                           | Yes                      | No                       |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|
| <b>Burst-Resistant Housing</b>        | <p>Has the filter housing passed destructive burst or pressure tests confirming it won't crack or fail in use?</p> <p>Ensures the filter won't crack or burst during use, which could cause water failures or contamination.</p>                                                | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Secure Fit &amp; No Splashback</b> | <p>Does the filter attach securely without leaks and maintain adequate sink space to prevent splashback or cross-contamination?</p> <p>Prevents unfiltered water bypass and cross-contamination from drain aerosols, ensuring only safe water reaches the patient.</p>          | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Monitor Water Quality Impact</b>   | <p>Has the PWSP accounted for potential issues like scale or sediment that could reduce flow or shorten filter life?</p> <p>Prompts monitoring and pre-emptive measures so filters don't clog unexpectedly – maintaining consistent water flow and protection.</p>              | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Biocide Compatibility</b>          | <p>Are all filter materials proven compatible with hospital biocides at both routine and shock doses?</p> <p>Guarantees the filter won't degrade or leach chemicals when the water system is chlorinated or heat-disinfected, preserving filter integrity and water safety.</p> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>No Reuse Once Removed</b>          | <p>Are procedures in place to ensure filters are never reattached after removal?</p> <p>Eliminates risk of retrograde contamination of the filter from uncontrolled water sources, that could impact patient safety.</p>                                                        | <input type="checkbox"/> | <input type="checkbox"/> |

| Selection Criterion              | Verification Question                                                                                                                                                                                                                                                                                                | Yes                      | No                       |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|
| Cleaning Protocols               | <p>Is there a documented cleaning protocol for the exterior surfaces of the filter housing, with responsible persons assigned?</p> <p>Prevents biofilm buildup and external contamination of the outlet, maintaining hygiene around the filter to ensure the water remains clean at the point of use.</p>            | <input type="checkbox"/> | <input type="checkbox"/> |
| Regulatory Compliance & Training | <p>Do the filters and their installations meet the plumbing regulation 'Water Fittings 1999', and are staff trained in their correct use?</p> <p>Ensures legal compliance (eliminating unintended plumbing risks) and that human factors do not undermine the filter's effectiveness.</p>                            | <input type="checkbox"/> | <input type="checkbox"/> |
| Documentation & Issue Logging    | <p>Are all filter installations, changes, and issues (leaks, clogs, etc.) properly logged and reviewed?</p> <p>Provides traceability and learning – a record to track filter performance and address any recurring issues, thereby continuously improving water safety management.</p>                               | <input type="checkbox"/> | <input type="checkbox"/> |
| Defined Use & Removal Criteria   | <p>Are clear criteria established for when to install and safely remove filters?</p> <p>Avoids haphazard usage – filters are deployed only where needed and removed with proper procedure, preventing complacency or unsafe removal that could expose patients.</p>                                                  | <input type="checkbox"/> | <input type="checkbox"/> |
| Clog/Reduced-Flow Investigation  | <p>Is there a process in place to investigate filter block-ages or early flow reductions with manufacturer support?</p> <p>Addresses root causes (e.g., water quality issues) rather than just replacing filters, ensuring long-term solutions to keep water safe and filters effective for their full lifespan.</p> | <input type="checkbox"/> | <input type="checkbox"/> |