



T-safe360™

More than a filter. A complete patient-protection framework.



T-safe
360

With T-safe360™, NHS Estates and IPC teams gain **product, process, and proof** - ensuring filters are always used correctly, managed transparently, and fully defensible under governance.

Introduction

Point-of-use (POU) filters are a proven safeguard against water-borne pathogens such as *Pseudomonas aeruginosa*, *Legionella spp.*, and non-tuberculous mycobacteria (NTM). Yet, in many hospitals, filters are introduced reactively and then managed in an ad hoc way. Without a documented strategy, oversight, and integration into the Water Safety Plan, filters that initially serve as a strong line of defence can quickly become a weak link.

The consequences are severe: gaps in protection, missed exchanges, audit blind spots, and ultimately avoidable patient risk. Recognising this, the latest NHS Estates Technical Bulletin (NETB 2024/03) sets clear expectations that point-of-use filters must be:

- Validated to sterilising-grade standards
- Correctly specified for outlet type and clinical risk
- Integrated into the Water Safety Plan
- Supported by training, governance, and evidence of compliance

T-safe360™ was created to meet these needs. It extends beyond the filter itself, providing a structured, end-to-end framework that closes governance gaps and ensures every filter is supported by product, process, and proof.

The Challenge

Healthcare water systems are complex, dynamic environments where biofilm, stagnation, and microbial ingress create ongoing risks. Point-of-use filters are highly effective in preventing pathogens from reaching patients, but only when they are correctly specified, validated, managed, and monitored.

Too often, filters are installed in response to an incident and then left to operate passively. This 'fit-and-forget' approach undermines both safety and compliance.

Typical failures include:

- **Incorrect specification** – the wrong filter type fitted to the wrong outlet, leaving gaps in protection.
- **Installation errors** – non-validated connectors or poor sealing, risking leaks or retrograde contamination.
- **Overdue exchanges** – filters left in place beyond their validated life, causing reduced flow.
- **Governance gaps** – absence from the Water Safety Plan, with no accountability or assurance.
- **Data blind spots** – fragmented logs and spreadsheets that miss exchanges or lose compliance evidence.

The result isn't just operational inefficiency or gaps in compliance – it has a direct clinical impact:

- **Hospital-acquired infections (HAIs):**
For patients in transplant, oncology, or intensive care, even brief exposure to waterborne pathogens can be life-threatening.
- **Ward closures and disruption:**
Outbreaks necessitate reactive interventions, patient relocations, and the cancellation of procedures.
- **Increased morbidity and mortality:**
Infections linked to contaminated outlets prolong hospital stays and cause preventable harm.
- **Financial and reputational damage:**
Outbreak investigations, litigation, and regulatory scrutiny place additional burdens on hospitals.

NETB 2024/03 makes it clear: filters are not standalone, temporary measures. They must be part of a structured, actively managed, and fully evidenced Water Safety Plan.

The T-safe360™ Solution

T-safe360™ is an end-to-end framework built specifically for healthcare, aligning with NETB 2024/03. It provides:

Product

A full range of validated medical-grade filters for every outlet

Process

Expert surveys, installation support, SOPs, and training

Proof

Digital tracking, alerts, audit trails, and governance reporting

The 5 Pillars of T-safe360™



Complete Range for All Outlets No Gaps, No Compromise

A common failure when filters are deployed without planning is assuming a single filter can serve all outlets. In reality, healthcare estates contain a wide variety of taps, showers, specialist devices, and legacy fittings. Poor alignment between filter type and outlet creates inconsistent standards and governance gaps.

T-safe360™ addresses this by offering the UK's most comprehensive medical filter portfolio, including:

- **Tap Filters** - designed for hand hygiene stations, clinical sinks, and patient rooms.
- **Shower Filters** - for en-suite facilities, hydrotherapy, and rehabilitation areas.
- **Specialty Filters** - for birthing pools, medical devices, and ice machines.
- **Bespoke Connectors & Mounting Options** - ensuring a secure, watertight fit.

With this breadth of range, Estates teams can deploy a consistent, estate-wide standard of protection, eliminating variation and closing the gaps that "one size fits all" strategies leave behind.





Gold-Standard Validation

Real-World Proof, Not Assumptions

Without rigorous validation, filter performance often rests on partial or manufacturer-only claims. A single log-reduction result or data point at installation provides little assurance across the full service life. This creates uncertainty – and in high-risk areas, uncertainty translates into clinical risk.

T-safe360™ removes this ambiguity through gold-standard validation:

- **ASTM F838 sterilising-grade filtration** – recognised globally as the benchmark for microbial retention.
- **Full life cycle testing** – proving performance from day one through to the end of validated use, not just on installation day.
- **Broad-spectrum efficacy** – validated against *Pseudomonas aeruginosa*, *Legionella spp.*, and NTM.

This ensures Estates and IPC teams can trust the evidence, knowing that filters perform consistently throughout their service life - not just at the start.



Service-Led Deployment

Assurance from Day One

When filters are introduced without expert oversight, errors are common, including incorrect product fittings, poor sealing, and unregistered outlets. These mistakes may not surface until a compliance check or outbreak investigation – by then, it's too late.

T-safe360™ prevents this with service-led deployment, including:

- **Technical Site Surveys** – matching filter type to outlet function and patient risk.
- **Asset Mapping & Traceability** – every outlet logged and registered to ensure accountability.
- **On-Site Training** – tailored to Estates, IPC, and Domestic staff to embed best practice for fitting, cleaning, and exchange.
- **Supervised Installation** – expert oversight during mobilisation to eliminate errors and assure correct deployment.

This service-driven approach ensures that filters are specified, installed, and managed correctly from the outset, thereby avoiding governance headaches later.



Integrated Governance

From Passive Devices to Active Controls

Without structure and governance, filters risk being ignored until something goes wrong. Fitted but not monitored, treated as accessories rather than critical clinical safeguards. This leads to overdue exchanges, poor accountability, and reactive crisis management.

T-safe360™ embeds filters directly into governance structures through:

- **SOPs & Emergency Protocols** – covering installation, exchange, cleaning, and outbreak response.
- **Role-Specific Training Materials** – ensuring every team knows its responsibilities.
- **Routine Health Checks & Audits** – proactive inspections to verify that filters remain in service, in date, and correctly maintained.
- **Formal Water Safety Group Reporting** – providing oversight, accountability, and defensible evidence.

By making filters a visible, accountable part of the Water Safety Plan, T-safe360™ ensures they remain an active infection prevention control – not a neglected accessory.



 **FilterHub**
by T-safe



Digital Compliance Oversight Without Blind Spots

Manual logs and spreadsheets are prone to error and unreliable. Missed exchanges, incomplete records, and lost data are frequent failings in hospitals where filters are not digitally managed. The result: compliance gaps that are only exposed when audits or outbreaks force the issue.

FilterHub by T-safe, the digital compliance backbone of T-safe360™, eliminates blind spots with:

- **Outlet-Level Registration** - every filter tracked and traceable across the estate.
- **Automated Alerts** - reminders for exchange and inspection tasks.
- **Compliance Dashboards & Audit Trails** - giving Estates and IPC real-time oversight and immediate governance evidence.
- **Integration with Water Sample Data** - enabling evidence-led decisions on when to deploy or remove filters.

With FilterHub, Estates and IPC teams gain continuous, transparent visibility of their filter strategy, ensuring compliance is maintained and defensible at all times.

Why This Matters

From Compliance to Patient Safety

In healthcare, safe water is non-negotiable. For very high-risk clinical areas - including transplant, oncology, haematology, and intensive care - the margin for error is zero. A fragmented filter strategy leaves hidden gaps – and even brief exposure to pathogens such as *Pseudomonas aeruginosa*, *Legionella spp.*, or NTM can have life-threatening consequences.

The consequences go beyond patient harm:

- **Ward closures and cancelled procedures** – disrupting care and adding pressure to Estates and clinical teams.
- **Regulatory scrutiny** – failure to evidence compliance under NETB 2024/03 or HTM 04-01.
- **Financial and legal impact** – outbreak investigations, litigation, and costly claims.
- **Reputational damage** – erosion of public trust following media coverage of outbreaks.

T-safe360™ ensures that regulatory and guidance requirements are met. By embedding filters into a structured, managed framework – with product, process, and proof – Estates and IPC teams can demonstrate:



Compliance

Alignment with NETB 2024/03 and HTM 04-01.



Defensibility

Documented audit trails and governance reporting for Water Safety Groups and regulators.



Resilience

The ability to respond rapidly to incidents with confidence that processes are robust.



Patient protection

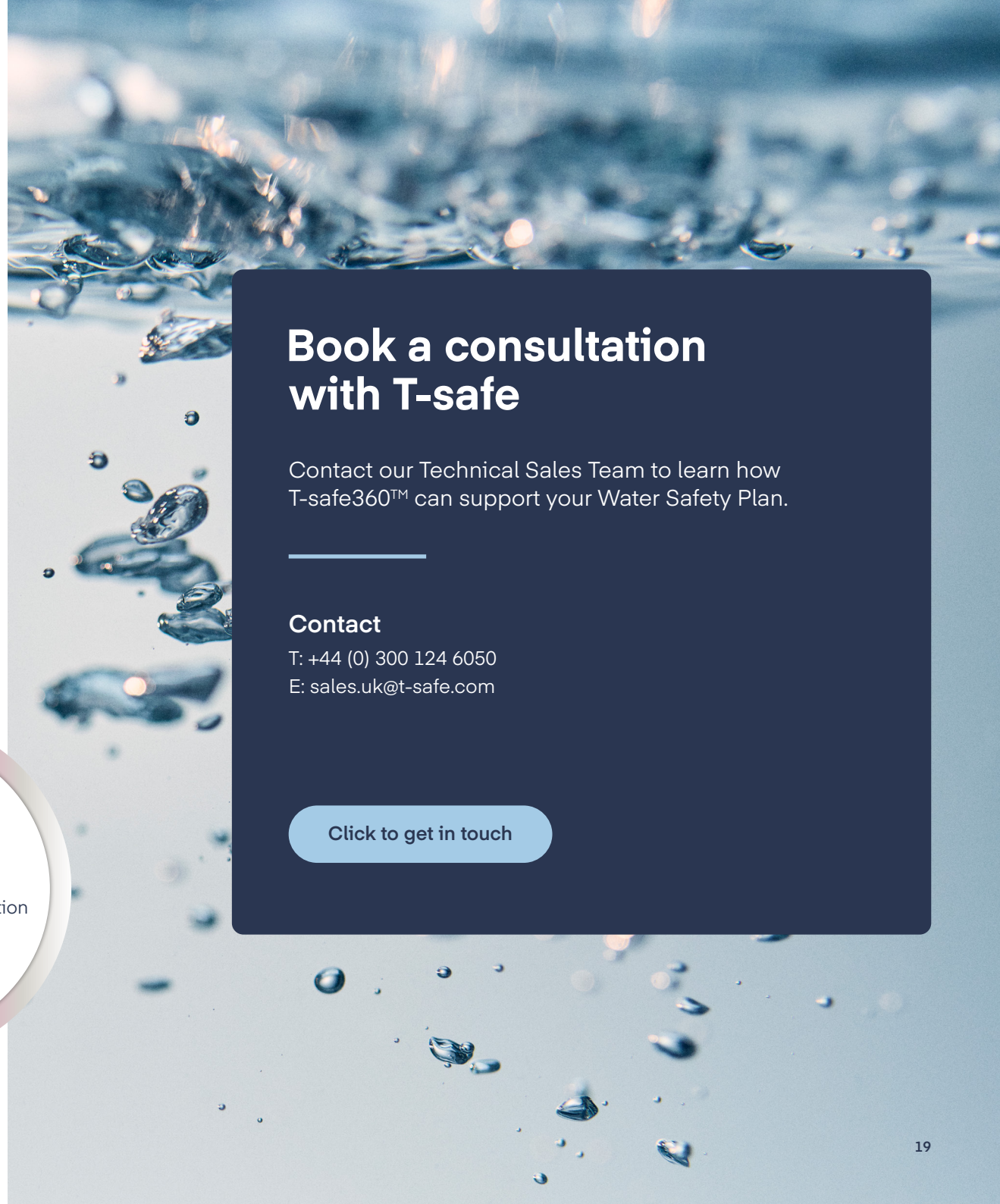
Consistent assurance that vulnerable patients are shielded from waterborne pathogens.

More Than a Filter

T-safe360™ is not just a product. It is a complete compliance framework for water safety in healthcare. By combining product, process, and proof, NHS Estates and IPC teams can demonstrate that filters are:

- Correctly specified
- Validated and compliant with NETB 2024/03 and HTM 04:01
- Embedded into governance
- Managed transparently with digital oversight

This assures patient safety, regulatory compliance, and operational resilience.



Book a consultation with T-safe

Contact our Technical Sales Team to learn how T-safe360™ can support your Water Safety Plan.

Contact

T: +44 (0) 300 124 6050

E: sales.uk@t-safe.com

[Click to get in touch](#)



Delivering Safe Water