

PurGuard360® Series

Ultra-Filtration Handheld Shower System
(Anti-Legionella / Bacteria)



MENTOR 
WATER TECHNOLOGIES USA

Redefining Water Purity



The **PurGuard360® (QF10-202)** Handheld Shower System features an advanced filter embedded within the handle, designed to help reduce exposure to waterborne pathogens like Legionella, NTM (Non-tuberculous Mycobacteria), E. Coli, Salmonella, Pseudomonas, and more.

With a pore size of 0.08 μm , the filter provides high-efficiency bacterial reduction and is tested and certified by IAPMO for NSF, ASSE, and the U.S. EPA (WaterSense). It is also certified under ASTM F838-2015ae for Legionella reduction (Log 8). Each filter is capable of providing up to 7,000 liters (1,850 gallons) of safe, filtered water for up to 150 days, depending on the initial water quality.



The **PurGuard360** Handheld Shower System is built for broad deployment in medical care environments, hotels, nursing homes, elderly care facilities, and residential or travel use.

It delivers 99.999999% bacterial reduction efficiency (Log 8) against Legionella and other waterborne bacteria, ensuring safe water for daily hygiene.

Its integrated bacteria-reduction filter is sealed directly inside the showerhead handle, optimizing performance and protection in a compact, watertight design.

Mentor Water Technologies is an **FDA-registered medical device establishment (Owner/Operator Number 10094411)** and a **U.S. EPA FIFRA-registered facility (EPA Est. No. 105402-NLD-1)**, producing antibacterial water filtration medical devices in accordance with U.S. regulatory requirements.

*Capacity depends on local water conditions, the amount of microparticles (SDI), and pre-filtration. SDI is measured according to ASTM D4189-95. It is recommended that the filter cartridge be replaced after 4-5 months. The amount of impurities in the water will vary between water systems, so filters will become clogged at different rates.

FEATURES

- + 0.08 µm ultrafiltration delivers certified Log 8 bacterial reduction
- + Reusable Anti-Microbial Handheld shower system exchangeable with handle Filter Cartridge
- + Compatible with ADA compliant pause adapter
- + Robust pre-filtration cartridge
- + Tested and complies with P376 + ASSE LEC 2011-2022 *Legionella* reduction standards
- + Tested and Complies with EPA WaterSense & ASTM F838-2015ae
- + EU Drinking Water Directive (2020/2184)
DIN EN 16421 & 58356

BENEFITS

- + Highest healthcare safety standards with NSF P376 Certification
- + Retains microorganisms without volume restriction
- + Waste reduction, cost reduction with high performance
- + Complete Anti-Microbial protection embedded throughout the system
- + Integrates with Legionella Water Management Plans

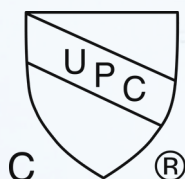
International standard & reliability tests

Our products are subject to stringent testing processes to align with global standards. Right from the development stage of our water purifiers and filters, we prioritize durability, safety, performance, and functionality.

This commitment is demonstrated through comprehensive reliability testing that conforms to international stress test standards, ensuring our products meet the highest quality criteria.



System conforms to
ASSE LEC 2011



Instruction For Use (IFU):



Redefining Water Purity

PRODUCT DETAILS

Mentor Water Technology Products are designed with a proactive approach, aiming to achieve an unparalleled standard in water purification. The unique pore size of 0.08 microns prevents any organisms larger than 0.08 microns from passing through the membrane.

Using a **Medical ABS in combination with Biomaster** material prevents any bacteria or viruses from multiplying, growing, or existing in and on the product.

Thanks to our new membrane technology, the PurGuard360® Handheld Shower System boasts an extended lifespan. The handle and filter can be safely replaced, ensuring reliable performance and continued protection.

Unlike similar handheld showers with exchangeable filters, where contaminated water may flow through the filter, our design prevents this by mounting the membranes directly into the handle.

This innovative method ensures the provision of **7,000 liters / 1,850 gallons and up to 150 days of safe and pure drinking water**, contingent upon the original



**This product is treated
with Biomaster silver
biocide tested
ISO 22196:2011**

Is the additive effective
against antibiotic-resistant
bacteria?

Yes, Biomaster has been
proven effective against
antibiotic-resistant
bacteria, including
resistant *Staphylococcus
aureus* (MRSA) and
Vancomycin-resistant
Enterococcus (VRE).



1

Biomaster **binds** to the cell wall **disrupting growth**

2

Biomaster ions **interferes** with the enzyme production **stopping the cell producing energy**

3

Biomaster **intrerrupts** the cell's DNA **preventing replication**



- + **Tested** to ISO standards
- + **Inhibits** growth of Fungi by up to **99.99%**
- + **Reduces** the risk of cross-contamination
- + **Protection** that lasts for the lifetime of the product
- + **EPA (WaterSense)** approval

TECHNICAL CHARACTERISTICS



Sterilization and Quality Assurance

When requested, our filters can be produced using sterilized materials and tested in accordance with the standards set forth by ISO 9001:2008. Our products are certified as CE Marked devices and manufactured under a quality system aligned with EN ISO 13485:2003 & ISO 11137 - 1:2006, ensuring the highest level of quality and safety.



The PurGuard360 Series offers two models:

1. PurGuard360 (7cm Diameter) – Available in White and Chrome
2. PurGuard360 (15cm Diameter) – Available in White and Chrome, featuring three operating positions: Rain, Normal, and Steam



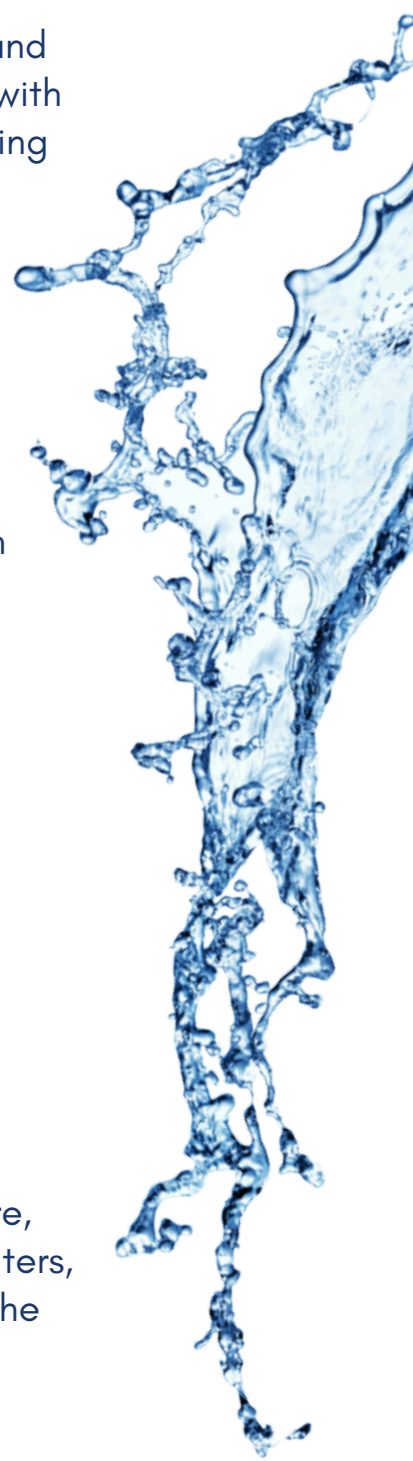
Comprehensive Testing

Each product undergoes 100% testing for membrane integrity and leak tightness, affirming our commitment to reliability and performance.



Durability

Demonstrated physical resilience against temperature fluctuations and chlorine exposure, with a proven performance lifespan of 7,000 liters, / 1,850 gallons up to 150 days, depending on the quality of the source water.





Filtration Capacity

A substantial filtration area of 3,400cm² / 527in² (Hollow Fiber) is designed for maximum efficiency and effectiveness in water purification.

Pore Size: 0.08 µm

Safety and Compliance

Certified and tested under the following standards:

- NSF P376 – Bacteria and fungal reduction
- ASSE LEC 2011-2022 – U.S. Water Engineering Association standard for bacteria reduction
- ASTM F838-2015ae – Legionella pneumophila reduction to Log 8 (99.999999%)
- EPA WaterSense certified – 1.8 GPM shower system
- ASTM F838-20 – Validated for bacterial retention
- EU Drinking Water Directive (2020/2184) and DIN EN 16421 & 58356

Transparency and Trust

A complete test dossier, including certified Legionella analysis, is available upon request to support transparency and build confidence with our clients and partners.

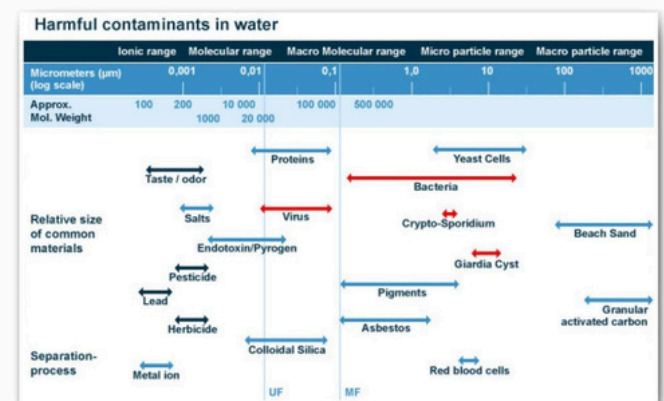
Efficiency

Tested and certified to achieve up to 99.999999% (Log 8) reduction of Legionella pneumophila and other waterborne bacteria, demonstrating the effectiveness of our technology in maintaining high water quality standards.

P376 MICROBIOLOGICAL FILTRATION REQUIREMENTS FOR CHALLENGE ORGANISMS & REDUCTION REQUIREMENTS

| ORGANISM | Maximum influent concentration (cfu/L) | Minimum required reduction (%) |
|---|--|--------------------------------|
| <i>Legionella pneumophila</i> ATCC 33152 | 1 x 10 ¹¹ | 99.9999 (6.0 log) |
| <i>Brevundimonas diminuta</i> ATCC 19146 | 1 x 10 ¹¹ | 99.9999 (6.0 log) |
| <i>Pseudomonas aeruginosa</i> ATCC 13388 | 1 x 10 ¹¹ | 99.9999 (6.0 log) |
| <i>Aspergillus fumigatus</i> ATCC 10894 | 1 x 10 ⁹ | 99.99 (4.0 log) |

Filtration Spectrum:



ABOUT US

Redefining Water Purity



Mentor Water Technologies BV, based in the Netherlands, leads in innovative water purification solutions for a sustainable future. Our extensive Research & Development division, where water experts from diverse continents collaborate, drives our commitment to high-quality, accessible, and affordable water purification technologies. Founded by Mentor Capital Holdings BV, a global Dutch investment advisory firm, Mentor Water Technologies benefits from over two decades of international expertise. Our systems are designed for superior efficiency and cost-effectiveness, ensuring exceptional value for our clients.

As a proud member of Mentor Capital Holdings BV, we believe in nurturing relationships through a personal touch, embodied by our employees and distributors worldwide. At Mentor Water Technologies, we provide not only the finest water purification solutions but also unparalleled service to meet your needs.



MENTOR CAPITAL
HOLDINGS



Patented Technology

Harnessing exclusive innovations for superior performance



R&D and Innovative Solutions

We leverage science to develop unique water purification solutions.



Price Affordability

Creates that you will promote to the target market.



Simple Setup

Designed for easy installation, requiring no special tools, just simple fitting.



Certified & tested Equipment

Our equipment is certified at the highest standards through rigorous third-party testing.



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