# Filter Performance Data - 3 Micron

## HEALTH CLAIM PERFORMANCE CERTIFIED BY NSF/ANSI

This system has been tested according to AS3497, NSF/ANSI 42 for the reduction of the substances listed below. The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in NSF/ANSI Standard 42.

| 93703NZ, 93705NZ | NHMRC ADWG or USEPA SDWA MCL | Average Influent concentration | NSF/ANSI influent challenge concentration | % reduction reqt / Max. permissible product water concentration | Max effluent concentration | Minimum % reduction | Average % removal | Average effluent concentration |
|---|---|---|---|---|---|---|---|---|
| **NSF/ANSI 42 - Aesthetic Effects** | | | | | | | | |
| Chlorine, Taste and Odor | 0.6 mg/L | 2.16 mg/L | 2.0 mg/L ± 10% | ≥ 50% | 0.05 mg/L | 97.7% | 99.2% | 0.02 mg/L |
| Nominal Particulate Reduction, Class II (1 µm to < 5 µm) | - | 4,200,000 particles/mL | at least 10,000 particles/mL | ≥ 85% | 270,000 particles/mL | 93.7% | 97.7% | 95,167 particles/mL |

*Pressure = 60 psig ± 3; pH = 7.5 ± 0.5; temp. = 20° ± 3°C *United States Environmental Protection Agency (USEPA) Safe Drinking Water Act / New Zealand Ministry of Health Drinking-water Standards for New Zealand

| Category | Treatment Type | Function | Pass |
|---|---|---|---|
| I | Microbiological Status | Will stop bacteria increasing, but will not remove unless II (a) is passed. | ✓ |
| II<br>II (a) | Microbiological Treatment Bacteria Removal | Will remove or inactivate bacteria. | N/A |
| II (b) | Virus Removal | Will remove or inactivate virus. | N/A |
| II (c) | Protozoa Removal | Cyptosporidium and Giardia. Will not remove or inactivate bactieria unless II (a) and II (b) are passed. | N/A |
| III | Particulate Reduction | Reduces cloudiness. | ✓ |
| IV | Taste and Odour Reduction | Reduces tastes and odours. | ✓ |
| V | Chemical Treatment | Decreases certain chemicals: - Chlorine | ✓ |

Legend: = ✓Pass N/A = Not Applicable

This 93703NZ and 93705NZ cartridge is certified by IAPMO R&T in PS-Zenith 3 micron system against NSF/ANSI Standard 42 for the reduction of:

**STANDARD NO. 42 – AESTHETIC EFFECTS**

Bacteriostatic Effects
Chemical Reduction Unit
Taste and Odour Reduction
Chlorine Reduction
Mechanical Filtration Unit
Nominal Particulate Reduction, Class II

* The term "bacteriostatic" indicates that the system limits the passage or growth of bacteria that may already exist in the incoming water. It does not mean that water leaving the system is safer to drink than water entering the system.

WM-022963 AS 3497 · WRAS APPROVED PRODUCT CERTIFICATION MARK WRAS approved for cold water use only. · UPC · IAPMO R&T WATER QUALITY PLATINUM SEAL IAPMO RESEARCH AND TESTING

*Filter system certified by IAPMO R&T against NSF 42; against NSF 372 for lead free product.

## OPERATING SPECIFICATIONS

- Pressure requirement: 10 -125 psi (0.7 - 8.62 bar), non-shock
- Temperature: 35 -100°F (2-38°C)

| Model | Flow Rate | Capacity | Kit # |
|---|---|---|---|
| 3mic MicroPurity filter 1.5S | 3.75 Lpm | 13,248 L | 93703NZ |
| 3mic MicroPurity Filter 2S | 5.678 Lpm | 17,034 L | 93705NZ |

Zenith filter systems are designed for ease of installation. However, post-installation inspections are highly recommended. Check for leaks immediately after installation and once again after 24 hours. If leaks are detected, turn off water supply, drain water and inspect the leaks. If problem persists, contact the installer / plumber for rectification.

It is essential that operational, maintenance and filter replacement requirements be carried out for this product to perform as advertised.

Flush new cartridge for 10L or at least 2 min 40 seconds to remove trapped air bubbles.

If left unused for more than 48 hours, flush cartridge for 10L or at least 2 min 40 seconds before use.

The compounds certified under NSF/ANSI 401 have been deemed as 'incidental contaminants / emerging compounds'. Incidental contaminants are those compounds that have been detected in drinking water supplies at trace levels.While occurring at only trace levels, these compounds can affect the public acceptance/perception of drinking water quality.

**Note**: While the testing was performed under standard laboratory conditions, actual performance may vary.

# Filter Performance Data - Carbon Free

## HEALTH CLAIM PERFORMANCE CERTIFIED BY NSF/ANSI

This system has been tested according to AS3497, NSF/ANSI Standards 42, 53 and 401 for the reduction of the substances listed below. The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in NSF/ANSI Standards 42, 53 and 401.

| 93706NZ | NHMRC ADWG or USEPA SDWA MCL | Average Influent concentration | NSF/ANSI influent challenge concentration | % reduction reqt / Max. permissible product water concentration | Max effluent concentration | Minimum % reduction | Average % removal | Average effluent concentration |
|---|---|---|---|---|---|---|---|---|
| **NSF/ANSI 42 - Aesthetic Effects** | | | | | | | | |
| Nominal Particulate Reduction, Class I (≥ 0.5 µm to < 1 µm) | - | 17,033,333 particles/mL | at least 10,000 particles/mL | ≥ 85% | 96,000 particles/mL | 99.35% | 99.66% | 58,333 particles/mL |
| **NSF/ANSI 53 - Health Effects** | | | | | | | | |
| Cysts (3.00 ± 0.15 µm particles) | 99.5% reduction | 90000 microspheres/L | minimum 50,000 microspheres/L | ≥ 99.95% | 1.0 microspheres/L | 99.99% | 99.99% | 1.0 microspheres/L |
| Asbestos | 7 MFL | 20,000,000 fibers/L | $10^7$ to $10^8$ fibers/L (10 - 100 MFL) | ≥ 99% | < 1.0 fibers/L | > 99.99% | > 99.99% | < 1.0 fibers/L |
| **NSF/ANSI 401 -Emerging Compounds/Incidental Contaminants** | | | | | | | | |
| Microplastics, particles 0.5 to < 1 µm | - | 17,033,333 particles/mL | at least 10,000 particles/mL | ≥ 85% | 96,000 particles/mL | 99.30% | 99.66% | 58,333 particles/mL |

*Pressure = 60 psig ± 3; pH = 7.5 ± 0.5; temp. = 20° ± 3°C *United States Environmental Protection Agency (USEPA) Safe Drinking Water Act / New Zealand Ministry of Health Drinking-water Standards for New Zealand

| Category | Treatment Type | Function | Pass |
|---|---|---|---|
| I | Microbiological Status | Will stop bacteria increasing, but will not remove unless II (a) is passed. | ✓ |
| II<br>II (a) | Microbiological Treatment Bacteria Removal | Will remove or inactivate bacteria. | N/A |
| II (b) | Virus Removal | Will remove or inactivate virus. | N/A |
| II (c) | Protozoa Removal | Cyptosporidium and Giardia. Will not remove or inactivate bactieria unless II (a) and II (b) are passed. | ✓ |
| III | Particulate Reduction | Reduces cloudiness. | ✓ |
| IV | Taste and Odour Reduction | Reduces tastes and odours. | N/A |
| V | Chemical Treatment | Decreases certain chemicals: - Lead | N/A |

Legend: = ✓Pass N/A = Not Applicable

This 93706NZ cartridge is certified by IAPMO R&T in PS-Zenith 0.2 micron system against NSF/ANSI Standard 42, 53 and 401 for the reduction of:

**STANDARD NO. 42 – AESTHETIC EFFECTS**

Bacteriostatic Effects

Mechanical Filtration Unit

Nominal Particulate Reduction, Class I

**STANDARD NO. 53 – HEALTH EFFECTS**

Mechanical Filtration Unit

Cyst Reduction

Asbestos

**STANDARD NO. 401 – Emerging Compounds/Incidental Contaminants**

Mechanical Filtration

Microplastics

* The term "bacteriostatic" indicates that the system limits the passage or growth of bacteria that may already exist in the incoming water. It does not mean that water leaving the system is safer to drink than water entering the system.

## OPERATING SPECIFICATIONS

- Pressure requirement: 10 -125 psi (0.7 - 8.62 bar), non-shock
- Temperature: 35 -100°F (2-38°C)

| Model | Flow Rate | Kit # |
|---|---|---|
| 0.2mic MicroPurity Filter 1.5S | 5.678 Lpm | 93706NZ |

**Filter system certified by IAPMO R&T against NSF 42; against NSF 372 for lead free product. Certified against CSA B483.1.

Zenith filter systems are designed for ease of installation. However, post-installation inspections are highly recommended. Check for leaks immediately after installation and once again after 24 hours. If leaks are detected, turn off water supply, drain water and inspect the leaks. If problem persists, contact the installer / plumber for rectification.

It is essential that operational, maintenance and filter replacement requirements be carried out for this product to perform as advertised.

Flush new cartridge for at least 6 minutes to remove trapped air bubbles.

If left unused for more than 48 hours, flush cartridge for 2 minutes before use.

The compounds certified under NSF/ANSI 401 have been deemed as 'incidental contaminants / emerging compounds'. Incidental contaminants are those compounds that have been detected in drinking water supplies at trace levels.While occurring at only trace levels, these compounds can affect the public acceptance/perception of drinking water quality.

**Note**: While the testing was performed under standard laboratory conditions, actual performance may vary.

Refer to User Guide for operation and maintenance.

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WM-022963
AS 3497

WRAS APPROVED PRODUCT
CERTIFICATION MARK
WRAS approved for cold water use only.

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Manufactured by Paragon Water Systems.