

Under Bench 3 Way Mixer and High Flow Filtration Systems

Model Numbers:

MTC-HF1M (Chrome Finish Mixer)

MTCM-HF1M (Chrome Matte/Brushed Finish Mixer)



Applications

Ideal for reducing unwanted contaminants affecting taste and odour of your drinking water in the home or workplace. Typically installed in new builds or where an existing tap is being replaced along with filtration, providing hot, cold and filtered water.

Benefits of Microlene's Under Bench Filtration Systems

What's in your water supply?

Most water supplies contain dissolved minerals such as chlorine and aluminum, as well as sediment that can leave a residual smell and taste in the water. In municipal water supply, there can also be Trihalomethane (THM's) present, THM's form as a result of water having been treated with chlorine where levels of organic matter were present. THM's will be harmful if consumed. If you get your water from other than municipal supply, your water may also contain parasitic cysts such as Giardia and Cryptosporidium.

Microlene System

These Microlene 3 Way Mixer and High Flow Filtration Systems provide an attractive WaterMarked 3 Way Mixer along with a 1 micron* filtration system. All the plumbing connections required are included for a standard installation.

The 3 in 1 Mixer provides hot, cold and filtered water all from the one tap. There is absolutely no mixing of filtered and unfiltered water. The Mixer comes with either option of Chrome finish (MTC-HF1M) or Chrome Matte/brushed finish (MTCM-HF1M).

The system incorporates a 1 Micron* fine filtration Cartridge providing clean tasting drinking water.

Microlene Cartridge Design

The 5 Stage, 1 micron* water filtration process reduces bad taste and odour, chemicals (such as chlorine), sediment and Trihalomethane (THM's) whilst leaving all vital minerals in the water supply. Cartridge design incorporates water softening beads for treating scaling and hard water. The cartridge protects and removes up to 99.9% of harmful cysts like Giardia and Cryptosporidium.

The cartridge design provides toolless installation and replacement. Simply turn off the cold water supply, drain the water from the line (by turning on the filter tap), then twist and remove, or insert and twist to install.

Designed for both rain water supply and mains water supply. If using for rain water / harvested water applications, pre treatment may be required such as sediment reduction and UV to remove bacteria and harmful viruses.

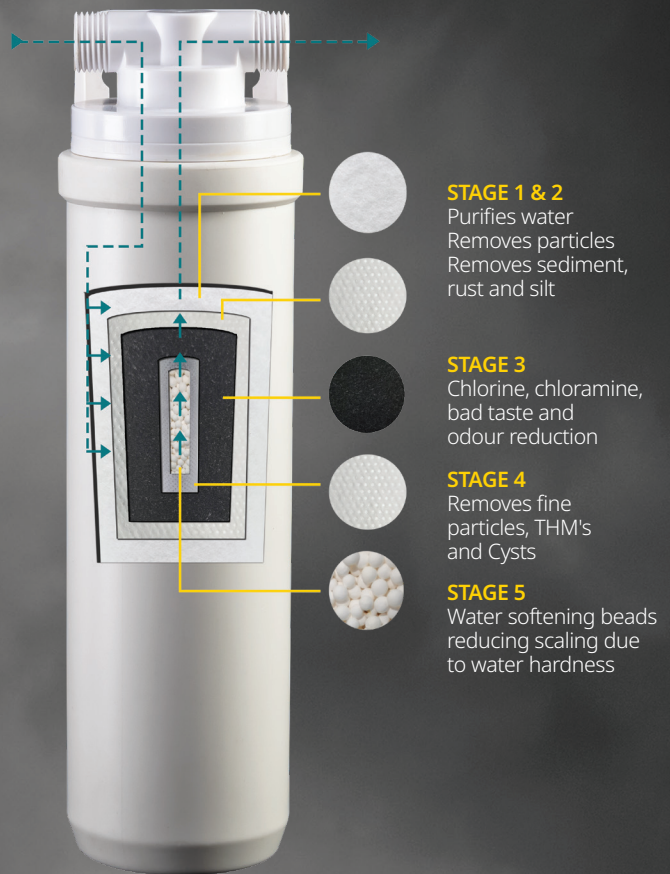
The Cartridge is designed to purify up to 65,000 litres of water. Recommended replacement every 6 months or if flow is significantly reduced or, taste and odour is detected when drinking the water.

The filtration system is easy to install, the cartridge and mounting head can be mounted vertically or horizontally allowing versatility for install spaces.

*All micron ratings are nominal

Microlene 3 Way Mixer and High Flow Under Bench Filtration System

Specifications	
Mixer Tap	
Model with Chrome Finish	MTC-HF1M
Model with Chrome Matte/Brushed Finish	MTCH-HF1M
Pressure Range	200 - 680kPa
Temperature Cold Supply Range	4 - 90°C
Tap hole for bench	33 - 35mm
Braided hose connections	½" FBSP
Cartridge	
Maximum Flow	9.5 lpm
Temperature Range	0 - 38°C
Pressure Range	200 - 680kPa
Filtration Size	1 Micron (nominal)
Filter Housing Connection	Twist
Cartridge Capacity	65,000 litres
Cartridge Replacement	6 monthly
Cartridge head connections	½" MBSP
Other connections	Connectors ¼" female Tube and ½" BSP
Certification	
3 Way Mixer	WELS and WaterMark
Smart T, ¼" tube, Cartridge and Mounting Head, 1/4" to 1/2" Connectors	AS/NZS 4020:2018 and WaterMark
All other components and fittings that touch water	WaterMark
Replacement Cartridge	HF1M-R
Mounting	
Vertical	500mm H x 215mm W
Horizontal	215mm W x 500mm H



STAGE 1 & 2
Purifies water
Removes particles
Removes sediment,
rust and silt

STAGE 3
Chlorine, chloramine,
bad taste and
odour reduction

STAGE 4
Removes fine
particles, THM's
and Cysts

STAGE 5
Water softening beads
reducing scaling due
to water hardness

Performance Data - Substance Reduction

The MTC-HF1M, MTCM-HF1M, HF1M, HF1M-R models have been tested and certified under AS 3497 and NSF/ANSI 42 & 53 for reduction of asbestos, chlorine, cysts, lead, odour, particles, taste and turbidity. The performance of this product has been verified and substantiated as the test data summarised below indicates. These substances may not be in your water.

Substance	aNHMRC ADWG or bUSEPA SDWA MCL	Average Influent Concentration	Maximum Effluent Concentration	Minimum Percent Removal	Average Effluent Concentration	Average Percent Removal
Cysts (3 µm particles)	99.95% reduction	51250 particles/L	< 20 particles/L	99.95%	< 20 particles/L	99.95%
Turbidity	5 NTU	11	<0.5	95.50%	<0.5	95.50%
Chlorine		2.01mg/L	< 0.1mg/L	94.73%	< 0.1mg/L	95.02%

Lab testing conditions: pH - 7.5 ± 0.5 Temperature - 20 ± 3 °C Flow rate - 9.5 lpm

Test results as required

Treatment Type	Description	Conformance to NSFANSI standards and protocols	Category	Status
Bacteriostatic	Will stop bacteria increasing but will not remove them unless Category II(a) is passed.	NSF/ANSI 55	I	N/A
Bacteria Removal	Will remove or inactivate bacteria	NSF/ANSI 55	II (a)	N/A
Virus Removal	Will remove or inactivate virus	NSF/ANSI 55	II (b)	N/A
Protozoa Removal	Will Remove or inactivate Cryptosporidium, Giardia Lamblia, Entamoeba Histolytica	NSF/ANSI 53	II (c)	Pass
Turbidity and particulate removal	Reduces Cloudiness	NSF/ANSI 53	III	Pass
Taste and Odour reduction	Reduces tastes and odours	NSF/ANSI 42	IV	Pass
Chemical Contaminant reduction	Decreases Chlorine	NSF/ANSI 42	V	Pass

Performance will vary based on local water conditions.

The substances reduced by this product are not necessarily in your water

This product requires regular replacement to maintain proper operation. Varying chlorine, sediment, or organic substance levels may affect replacement frequency. The Cartridge is designed to purify up to 65,000 litres of water. Recommended replacement every 6 months or if flow is significantly reduced or, taste and odour is detected when drinking the water.

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system

Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.

Glossary of terms

NHMRC ADWG -- National Health and Medical Research Council Australian Drinking Water Guidance

USEPA SDWA -- United State Environmental Protection Agency Safe Drinking Water Act

MCL -- Maximum Contaminant Level

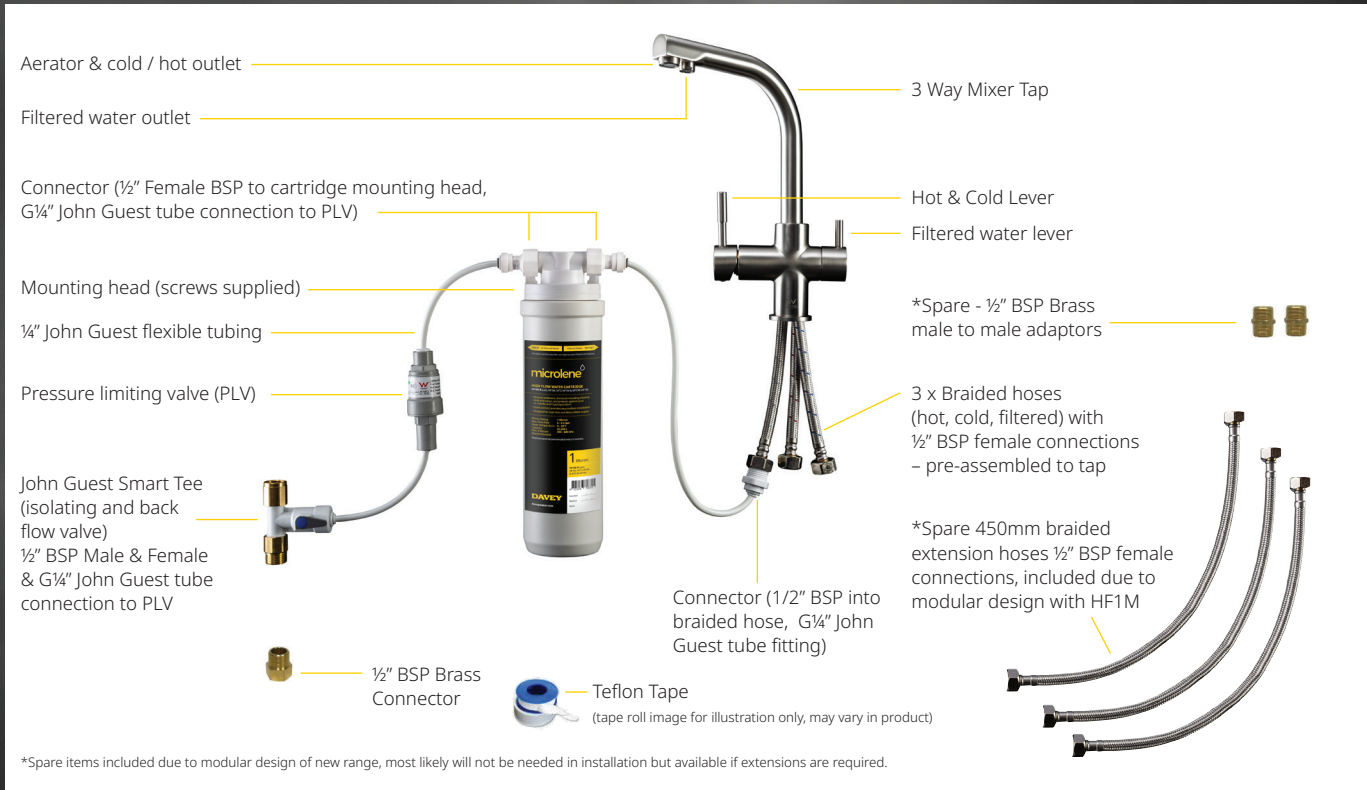
Cysts -- Cryptosporidium, Giardia Lamblia, Entamoeba Histolytica

mg/L -- milligrams per Litre

NTU -- Nephelometric Turbidity Units

Testing performed under standard laboratory conditions, actual performance may vary.

Microlene 3 Way Mixer and High Flow Under Bench Filtration System



Please note: Microlene under bench systems and purifiers can only be used on biologically safe water sources. If your water contains bacteria or viruses, additional treatment is required prior to the Microlene purifier in order to make the water safe to drink.

This product holds a 5 Year warranty on Taps and Fittings. The cartridge is a consumable item, warranty for cartridge limited to 6 months for manufacturing defect only. The warranty does not cover in-field service nor cover leaking or leaking damage caused by incorrect installation by plumber. This product should only be installed by a licensed plumber.