



PURE
WATER SYSTEMS



HI-TECH OPTIMISER

The Hi-Tech Optimiser (HTO) is a 10" cartridge that conveniently fits into most portable Bench Top Water Filters and Under Sink Water Filtration Systems. This means you can have great quality water conveniently at the turn of a tap. More than just great tasting drinking water, the HTO produces water that is great for washing fruit and vegetables, cooking with, warm drinks like tea and coffee, pets' water dishes and more.

THE HEART OF THE FILTER

Not all water filtration systems are created equal - it's what's inside your water filter that really counts. The cartridge is the heart of your water filtration system, so it's important to choose a great quality (replacement) cartridge that's backed up with performance proof.

For safer and healthier water, the HTO allows natural and beneficial minerals to remain, while removing potentially harmful contaminants such as chlorine, chloramine, lead, volatile organic compounds (VOCs), trihalomethanes (THMs), herbicides, pesticides and parasites.

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KEY BENEFITS

- Formulation NSF tested and certified to effectively remove up to 101 contaminants
- Removes 99% chlorine, 98% lead, 99.95% parasites (such as giardia and cryptosporidium)
- Submicron cartridge (less than 1 micron)
- Advanced carbon block filtration technology
- Exclusive to Pure Water Systems

SUITABILITY



CHILLED



RESIDENTIAL



BUSINESS



TOWN WATER



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www.purewatersystems.com.au

Refer to Pure Water Systems website for our Pure Quality Customer Satisfaction Guarantee.

HOW IT WORKS

For an extra level of filtration, the HTO's electrostatic outer wrap becomes *positively charged* as water passes through it, attracting and trapping microscopic *negatively charged* contaminants - that are too small for other carbon cartridges to filter. The water then filters through a solid block of blended, activated carbon and the pharmaceutical grade membrane for superior contaminant reduction.



STAGE 1 - The Electrostatic Outer Wrap

ACTIONS OF FILTRATION - Electrostatic & Mechanical Filtration

The HTO's white surface layer is the electrostatic outer wrap, which is a built-in positively (+) charged electrostatic pre-filter, that not only protects the carbon inside but enables the HTO to provide simply superior contaminant reduction compared to standard carbon cartridges.

The electrostatic outer wrap gains a strong positive (+) charge by the kinetic effect of water passing through the cartridge. This positive charge allows the electrostatic outer wrap to attract and trap negatively (-) charged contaminants which due to their microscopic size, may otherwise pass through the submicron carbon block.

The graded density electrostatic outer wrap also mechanically traps dirt, sand and other particles that are physically too large to pass through the wrap.

Purely and simply, the electrostatic outer wrap enables the HTO to remove MORE impurities from the water for a longer period of time than standard carbon cartridges.



STAGE 2 - Compressed Carbon Block

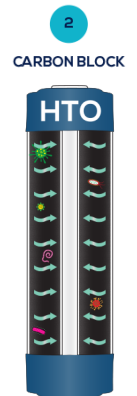
ACTIONS OF FILTRATION - Adsorption & Mechanical Filtration

Contaminants are removed by two processes in the densely compressed, unique blend of activated carbons. These processes are adsorption and mechanical filtration.

Adsorption is the process of the contaminants sticking to the surface area of the carbon.

Contaminants such as chlorine, lead, mercury and many more, are effectively removed from the water by this process.

The HTO's blend of carbons is heavily compressed to achieve a carbon block with submicron pore sizes. These restricted pore sizes are so small that contaminants like giardia, cryptosporidium, asbestos and turbidity, physically cannot pass through them.

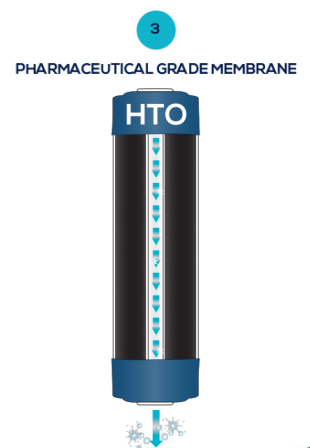


STAGE 3 - Pharmaceutical Grade Membrane

ACTIONS OF FILTRATION - Mechanical

The pharmaceutical grade membrane is located at the core of the HTO and plays a very important role. This final stage membrane provides structural integrity, but most importantly offers protection against carbon migration, meaning you're not ingesting the contaminated carbon from your filter cartridge.

The carbon and contaminants remain in the cartridge, so you can have healthy, great tasting filtered water at the turn of a tap.



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