



MWF Bench Top Reverse Osmosis Fluoride Remover

Water Filter System Complete with 100 GPD Membrane & Flush Valve Plus USA Omnipure Alkaliser

Reverse Osmosis

Of all methods that purify drinking water for domestic use, the process of Reverse Osmosis is the most advanced, economical and effective.

The R04000 removes all contaminants that are of concern to the consumer - such as chlorine, dissolved solids, fluoride, bacteria, parasites, viruses, inorganic chemicals, pesticides and heavy metals. These impurities are flushed down the drain rather than collected in the filters - preventing any build up, which may be the case with standard filtration systems.

The system is hand built in Australia and has been made using high quality components, filters and parts.

CONVENIENT PORTABLE DESIGN

Produce Pure Water Anywhere

COMPLETE PROTECTION

Efficient Four Stage Filtration

5 YEAR WARRANTY*

Hand Built and Factory Tested

The R04000 Countertop Reverse Osmosis System



EFFECTIVELY REMOVES

| |
|-----------------|
| Aluminium |
| Barium |
| Cadium |
| Chlorine |
| Chromium |
| Copper |
| Cryptosporidium |
| Cysts |
| e-Coli Bacteria |
| Fluoride |
| Giardia |
| Heavy Metals |
| Hydrocarbons |
| Iron |
| Lead |
| Manganese |
| Mercury |
| Nitrate |
| PCB's |
| Potassium |
| Radium |
| Selenium |
| Sodium |
| Taste & Odour |

Specifications

| | |
|---------------------------|-------------------------|
| Production @60 Psi 25°C | 400 litres per day |
| RO System Dimensions (cm) | 34(W) x 17(H) x 16.5(D) |
| Micron Rating | 0.0005 Micron |
| Warranty | 5 years* |



No mains plumbing required!

Simply attach to your existing kitchen faucet/aerator.

Diagram 1 - Labelled Assembly of Quality Components

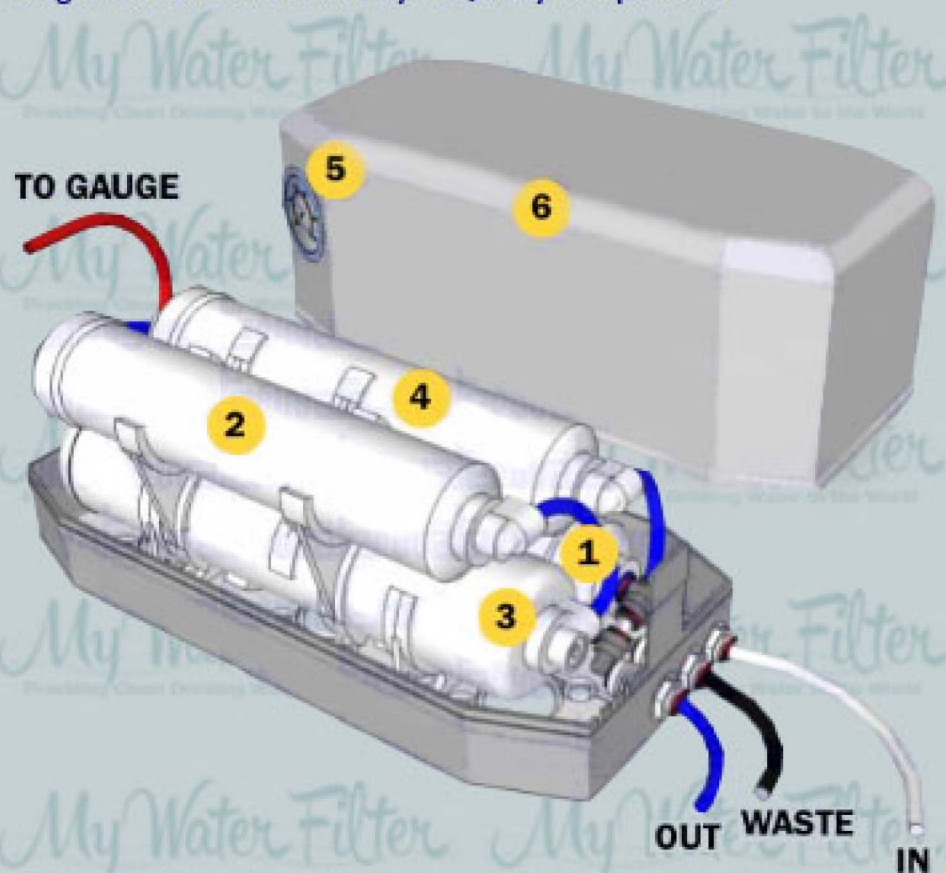
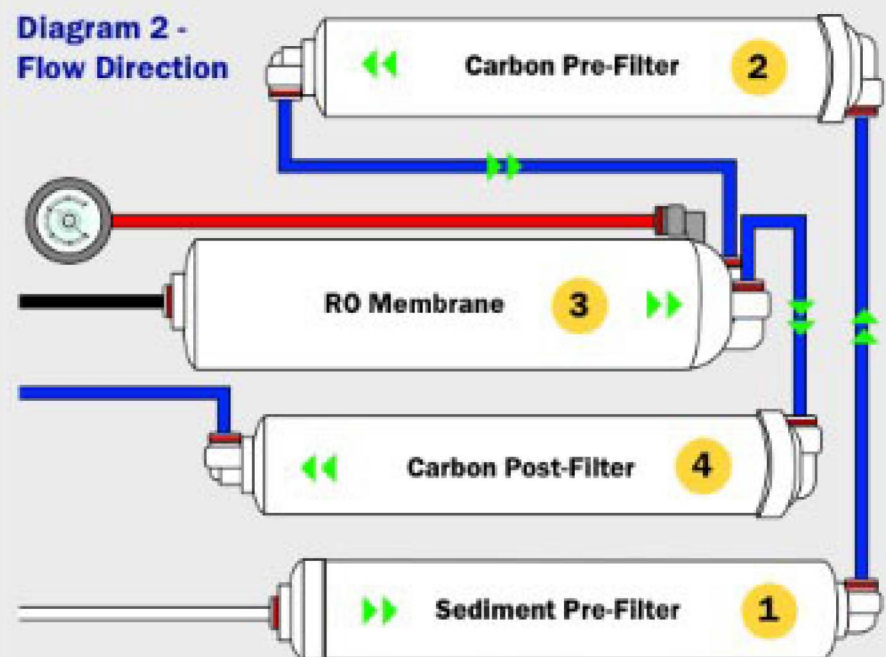


Diagram 2 - Flow Direction



Components

| | |
|-----------------------|----------------------|
| 1 Sediment Pre-Filter | 4 Carbon Post Filter |
| 2 Carbon Pre-Filter | 5 Pressure Gauge |
| 3 RO Membrane | 6 Plastic Cover |

Step by Step Maintenance

- 1 Remove the cover by compressing the clips at each end of the unit.
- 2 Disconnect the red hose that connects the RO Membrane to the pressure gauge.
- 3 Disconnect the Sediment Pre-Filter 1. Taking note of the inlet hose, replace with the **new** Sediment Pre-Filter. Ensure the flow direction is correct (see [Diagram 2](#)).
- 4 Disconnect and dispose of the Carbon Pre-Filter 2 taking note of the inlet hose. Insert hose into inlet of the new Carbon Pre-Filter. Ensure the flow direction is correct (see [Diagram 2](#)). Leaving the outlet **disconnected**, allow to run for a few minutes to flush the cartridge. This will flush the carbon fines inherent in the new Carbon Pre-Filter, preventing premature clogging of the RO Membrane 3.
- 5 Insert hose into the outlet of the new Carbon Pre-Filter 2.
- 6 Disconnect the Carbon Post-Filter 4. Taking note of the hose inlet's, replace with new Carbon Post-Filter. Ensure the flow direction is correct (see [Diagram 2](#)). Flush the system for a few minutes before drinking.

Your TFC RO Membrane 3 should last 3-6 years depending on water quality and usage. Your pure water quality can be tested with a conductivity meter measuring total dissolved solids (TDS) from the RO Membrane (pure water) outlet, this will indicate the rejection of contaminants ratio. TDS Testing is a complimentary service at our show rooms listed below.

Make sure the end of the tube is cut square and straight, ensuring it has an even, clean surface.

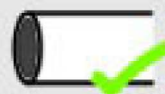
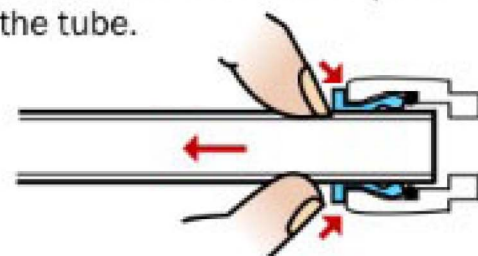
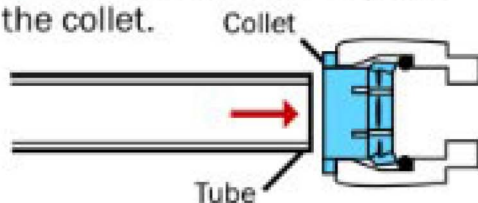


Diagram 3 - Tube Connections

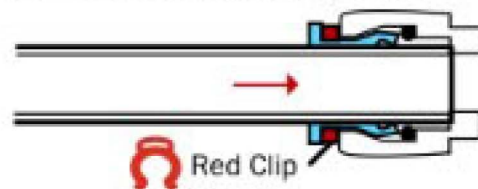
- 1 To remove the tube - First remove the red clip. Use two fingers to push onto the collet and at the same time pull out the tube.



- 2 To make the connection - push the tube firmly into the collet.



- 3 Make sure the tube is pushed as far as it can go and secure with a red clip.



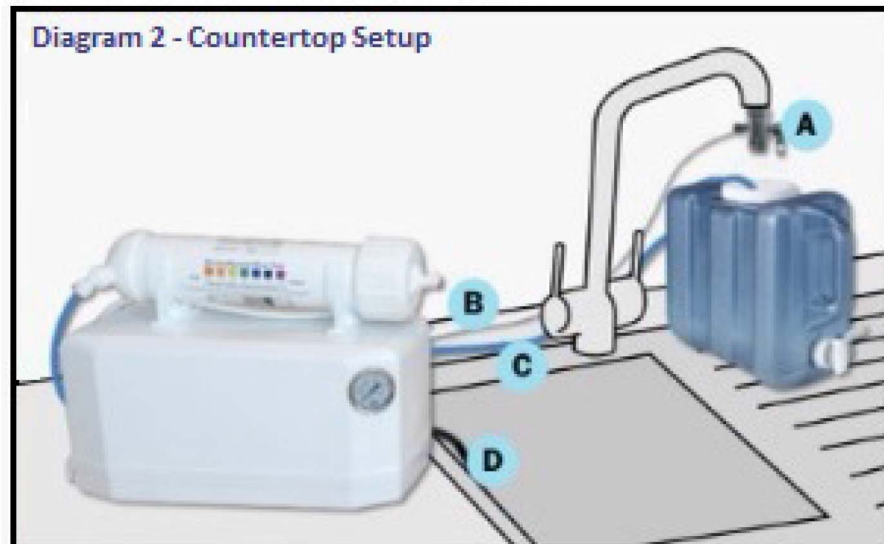
5-Stage Filtration Process

- 1 Sediment Pre-Filter**
Mechanical filtration removing fine sediment particles (5 micron).
- 2 Carbon Pre-Filter**
Remove chlorine and other organic pollutants for membrane protection.
- 3 Ultrafine TFC RO Membrane**
Screens to 0.0005 micron, filtering viruses, bacteria and parasites. Repels heavy metals. Removes Fluoride and Hydrocarbons.
- 4 Coconut Carbon Post-Filter**
Final polish results in superb tasting, pure water.
- 5 AlkaHydrate Filter Cartridge**
The Alkahydrate filter effectively raises pH levels as well as producing antioxidant and oxygenating qualities.

Pure Water Storage Container

Simple Self Installation

Diagram 2 - Countertop Setup



- 1** Find a convenient location on your bench top to place the filtration system in reach of your chosen faucet.
- 2** Remove/unscrew the existing aerator off your existing faucet.
- 3** Ensure you have assembled the correct fittings within the diverter (depending on the male/female thread of your kitchen faucet, **please refer to Diagram 3**). Simply connect/screw on the diverter valve to the faucet.

! This system is for use on a cold water line only. Hot water may damage the RO membrane.

NOTE: An external thread indicates a male fitting. An internal thread indicates a female fitting.

About the AlkaHydrate Filter Cartridge



Health
Enhancing
Addition

- ✓ Raise pH**
The AlkaHydrate Filter is ideal for those who are looking to reduce acidic toxic waste in the blood, tissues, and fluids of the body and thus adhere to the more alkaline state required by most human metabolic processes.
- ✓ Add Ionic Organic Natural Minerals**
- ✓ Lower Oxidation Reduction Potential(ORP)**
Any substance that oxidises essentially disintegrates. Water or a media with a negative ORP has the ability to decrease the oxidation, or prolong the life, of another substance or body. The AlkaHydrate filter significantly increases the negative ORP thus enabling it to decrease the oxidation of substances (our body in particular) therefore being a potent anti-oxidant.

- A** **Diverter** connects the kitchen faucet to the white tube.
- B** **1/4" white tube** connects the diverter to the filter system.
- C** **1/4" blue tube** feeds pure water to the storage container.
- D** **1/4" black tube** feeds waste water to the drain.

Diagram 3 - Tap Fittings



A Healthy Addition to Your Water Filter

NEW



*"Just about every condition
I can think of, from arthritis,
to diabetes, to cancer,
is associated with acidity"*
- Dr. Robert Atkins



The Alkahydrate filter will provide you with enhanced water that is energized and mineralized. It raises the pH levels as well as producing antioxidant and oxygenating qualities. The filter also emits far infrared rays which result in shorter cluster chains in the water molecules - increasing the bio-available response and oxygen absorption in the body.

Raise pH

The AlkaHydrate Filter is ideal for those who are looking to reduce acidic toxic waste in the blood, tissues, and fluids of the body and thus adhere to the more alkaline state required by most human metabolic processes.

Alkaline water is not a medicine to cure any disease. The fact that alkali neutralises acid is elementary chemistry and requires no statistical analysis. Drinking alkaline water helps our body dissolve acid wastes - making it easier for the body to dispose of them safely. The accumulation of acid wastes is aging and thus reduction of acid wastes is anti-aging.

Add Ionic Organic Natural Minerals



Lower ORP

ORP – Oxidation Reduction Potential is the ability of water or any other media to oxidise (or more importantly – decrease the oxidation of) another substance or body. Air, with a positive ORP will oxidise metal thus causing corrosion or rust. Any substance that oxidises essentially disintegrates. Water or a media with a negative ORP has the ability to decrease the oxidation, or prolong the life, of another substance or body. The AlkaHydrate filter significantly increases the negative ORP thus enabling it to decrease the oxidation of other substances or bodies (our body in particular) by being a potent anti-oxidant.

Certificate of Analysis

TEST RESULTS

Sterilization: Heat
Carriers/Flow Agents: None

Lot Number: P1260ISI1219
Analysis Date: December 2012
Expiration Date: December 2015
Lab Report Number: SEM01282013-S201301-0690/AL75659-01

MICROBIOLOGICAL ANALYSIS

| Analysis | Method | Specification | Results |
|--|--------------|---------------|-----------|
| Plate Count Petrifilm | AOAC 997.12 | < 3000 CFU/g | 10 CFU/g |
| Yeast Petrifilm | AOAC 997.02 | < 10 CFU/g | <10 CFU/g |
| Mold Petrifilm | AOAC 997.02 | < 10 CFU/g | <10 CFU/g |
| Staph. Aureus Petrifilm | AOAC 2003.07 | < 10 CFU/g | <10 CFU/g |
| Total Coliform Petrifilm | AOAC 991.14 | < 10 CFU/g | <10 CFU/g |
| Salmonella | AOAC 989.13 | Negative/10g | Negative |
| E. Coli Petrifilm | AOAC 991.14 | < 10 CFU/g | <10 CFU/g |
| Particle Size: ≥ 97% through 10 mesh, ≥ 97% mesh retained on 30 mesh | | | |

MINERAL ANALYSIS

| Analysis | Method | Specification | Results |
|------------|-----------|-----------------|-----------|
| Appearance | Visual | Granules | Pass |
| Color | Visual | White/Off White | Pass |
| Odor | Olfactory | Characteristic | Pass |
| Calcium | USP 730 | ≥ 35 % | 40.40 % |
| Magnesium | USP 730 | ≥ 1000 ppm | 1,401 ppm |

TYPICAL TRACE MINERAL ANALYSIS

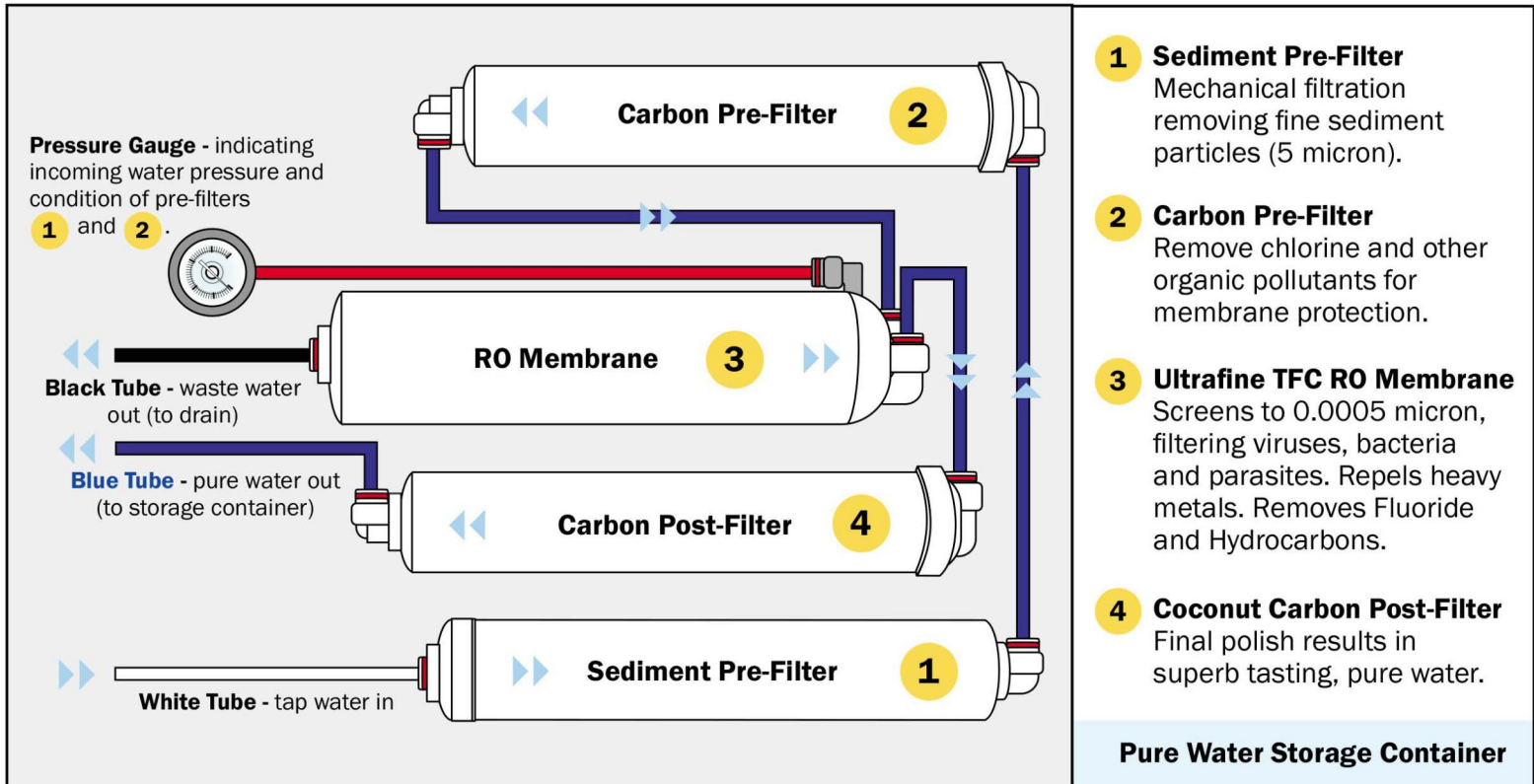
| Trace Minerals | Results | Units | Trace Minerals | Results | Units | Trace Minerals | Results | Units |
|----------------|---------|-------|----------------|---------|-------|----------------|---------|-------|
| Antimony | 1.76 | ppm | Indium | 0.067 | ppm | Scandium | <0.02 | ppm |
| Barium | 5.0 | ppm | Iodine | 8.04 | ppm | Selenium | 0.23 | ppm |
| Beryllium | 0.015 | ppm | Iridium | <0.05 | ppm | Silicon | 421 | ppm |
| Bismuth | 0.048 | ppm | Iron | 106 | ppm | Silver | 0.39 | ppm |
| Boron | 0.668 | ppm | Lanthanum | <0.05 | ppm | Sodium | 168 | ppm |
| Bromine | 8.68 | ppm | Lithium | 0.194 | ppm | Strontium | 73.6 | ppm |
| Carbon | 126,000 | ppm | Lutetium | 0.031 | ppm | Sulfur | 547 | ppm |
| Cerium | 0.98 | ppm | Manganese | 8.08 | ppm | Tantalum | 0.05 | ppm |
| Cesium | 1.08 | ppm | Molybdenum | 0.088 | ppm | Tellurium | 0.039 | ppm |
| Chloride | 221 | ppm | Neodymium | 0.67 | ppm | Terbium | 0.044 | ppm |
| Chromium | 1.99 | ppm | Nickel | 0.061 | ppm | Thallium | 1.07 | ppm |
| Cobalt | 0.059 | ppm | Niobium | 1.05 | ppm | Thorium | <0.05 | ppm |
| Copper | 5.36 | ppm | Osmium | <0.05 | ppm | Thulium | 0.05 | ppm |
| Dysprosium | 0.602 | ppm | Palladium | 0.019 | ppm | Tin | 0.75 | ppm |
| Erbium | 7.4 | ppm | Phosphorus | 43.98 | ppm | Titanium | 0.65 | ppm |
| Europium | 0.106 | ppm | Platinum | 0.015 | ppm | Tungsten | 0.025 | ppm |
| Gadolinium | 0.796 | ppm | Praseodymium | 0.62 | ppm | Ytterbium | 0.044 | ppm |
| Gallium | 0.305 | ppm | Rhenium | <0.05 | ppm | Yttrium | 0.552 | ppm |
| Germanium | 0.352 | ppm | Rhodium | <0.01 | ppm | Zinc | 7.53 | ppm |
| Gold | 0.034 | ppm | Rubidium | 14.3 | ppm | Zirconium | 1.62 | ppm |
| Hafnium | <0.03 | ppm | Ruthenium | 0.06 | ppm | | | |

PESTICIDE ANALYSIS

Testing Method: EPA 8081/8082

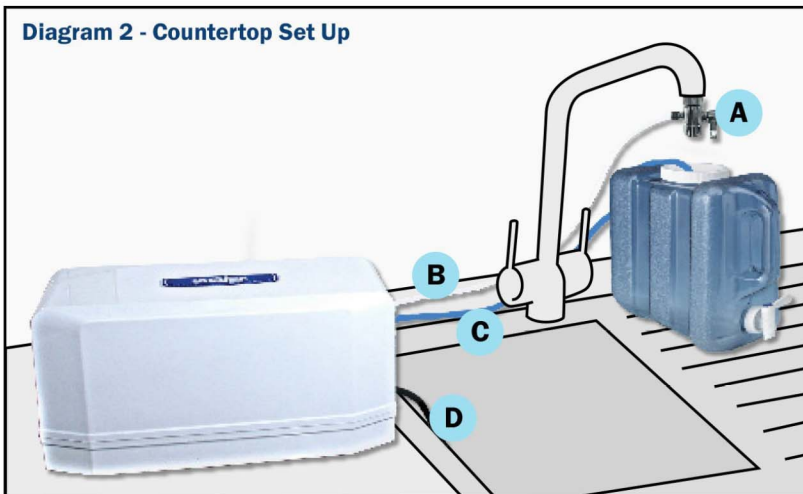
| Analysis | Det. Limit | Results | Units | Analysis | Det. Limit | Results | Units | Analysis | Det. Limit | Results | Units |
|----------------------|------------|---------|-------|--------------------|------------|---------|-------|---------------------|------------|---------|-------|
| 4, 4' - DDE | 9.9 | n.d. | μ/kg | Aroclor 1254 | 99 | n.d. | μ/kg | Heptachlor Epoxide | 5.1 | n.d. | μ/kg |
| 4, 4' - DDD | 9.9 | n.d. | μ/kg | Aroclor 1260 | 99 | n.d. | μ/kg | Toxaphene | 495 | n.d. | μ/kg |
| 4, 4' - DDT | 9.9 | n.d. | μ/kg | Dieldrin | 9.9 | n.d. | μ/kg | Alpha-Chlordane | 5.1 | n.d. | μ/kg |
| 4, 4' - Methoxychlor | 51 | n.d. | μ/kg | Endosulfan I | 5.1 | n.d. | μ/kg | Alpha-BHC | 5.1 | n.d. | μ/kg |
| Aldrin | 5.1 | n.d. | μ/kg | Endosulfan II | 9.9 | n.d. | μ/kg | Beta-BHC | 5.1 | n.d. | μ/kg |
| Aroclor 1016 | 99 | n.d. | μ/kg | Endosulfan Sulfate | 9.9 | n.d. | μ/kg | Delta-BHC | 5.1 | n.d. | μ/kg |
| Aroclor 1221 | 198 | n.d. | μ/kg | Endrin | 9.9 | n.d. | μ/kg | Gamma-BHC (Lindane) | 5.1 | n.d. | μ/kg |
| Aroclor 1232 | 99 | n.d. | μ/kg | Endrin Aldehyde | 9.9 | n.d. | μ/kg | Gamma-Chlordane | 5.1 | n.d. | μ/kg |
| Aroclor 1242 | 99 | n.d. | μ/kg | Endrin Ketone | 9.9 | n.d. | μ/kg | | | | |
| Aroclor 1248 | 99 | n.d. | μ/kg | Heptachlor | 5.1 | n.d. | μ/kg | | | | |

RO 4-Stage Filtration Process Diagram 1



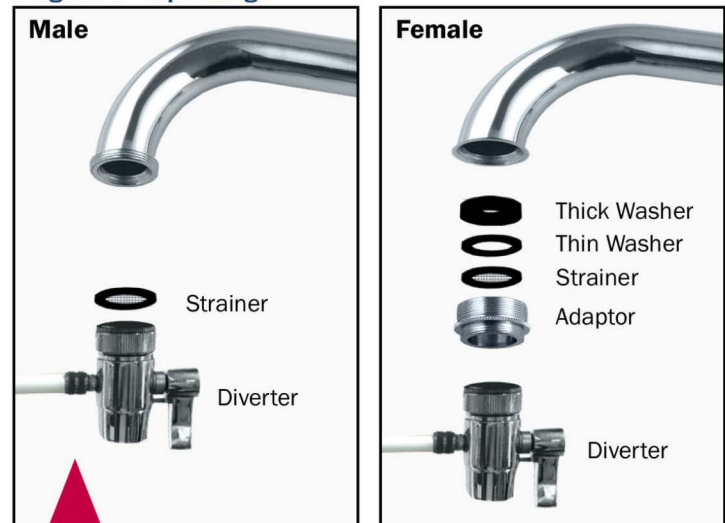
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Diagram 3 - Tap Fittings



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For further informaton and assistance assistance on the installation and maintenance of the RO4000 system, please contact us. We will be glad to help you in any way we can.

NOTE: An external thread indicates a male fitting. An internal thread indicates a female fitting.