

Performance Data Sheet

Model: Micromax 6000 TFC and Micromax 6500 TFC

Use Replacement Cartridge Models:

**47-124001PRI, 66-5706PRI, and 47-55730PRI (for Micromax 6000 TFC) and
47-126001PRI, 47-125001PRI, 66-5706PRI, 47-55730PRI (for Micromax 6500 TFC)**

Reverse Osmosis / Activated Carbon Drinking Water Appliance



System tested and certified by NSF International against NSF/ANSI Standard 42, 53, and 58 for the reduction of 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, 53, and 58.

Contaminant Reduction Determined by NSF testing.

Substance Reduction	Average Influent	NSF Specified Challenge Concentration	Avg % Reduction	Average Product Water Concentration	Max Permissible Product Water Concentration	NSF Reduction Requirements	NSF Test Report
Standard 42							
Chlorine Taste and Odor	2.0 mg/L	2.0 mg/L ± 10%	97.5%	0.05 mg/L	N/A	≥ 50%	J-00144508
Nominal Particulate Class I, ≥0.5 to < 1.0 µm	11,000,000 pts/mL	At least 10,000 particles/mL	92.4%	836,667 pts/mL	N/A	≥85%	J-00128445
Standard 53							
P-Dichlorobenzene	0.236 mg/L	0.225 mg/L ± 10%	99.8%	0.028 mg/L	0.075 mg/L	N/A	J-00075610
Standard 58							
Arsenic (pentavalent)	0.50 mg/L	0.30 mg/L ± 10%	99.4%	0.002 mg/L	0.010 mg/L	N/A	J-00120929
Barium	9.4 mg/L	10 mg/L ± 10%	98.8%	0.115 mg/L	2.00 mg/L	N/A	J-00120930
Cadmium	0.029 mg/L	0.03 mg/L ± 10%	98.0%	0.0005 mg/L	0.005 mg/L	N/A	J-00121468
Chromium (Hex.)	0.31 mg/L	0.3 mg/L ± 10% (added as hexavalent)	98.5%	0.005 mg/l	0.1 mg/L	N/A	J-00120929
Chromium (Tri.)	0.30 mg/L	0.3 mg/L ± 10% (added as triavalent)	99.5%	0.002 mg/l	0.1 mg/L	N/A	J-00120930
Copper	2.7 mg/L	3.0 mg/L + 10%	98.9%	0.03 mg/L	1.3 mg/L	N/A	J-00121469
Cyst	100000 cysts/L	Minimum 50,000 cysts/L	99.98%	7 cyst/L	N/A	≥99.95%	J-00121472
Fluoride	8.8 mg/L	8.0 mg/L ± 10%	97.4%	0.23 mg/L	1.5 mg/L	N/A	J-00121467
Lead	0.16 mg/L	0.15 mg/L ± 10%	98.7%	0.002 mg/L	0.010 mg/L	N/A	J-00121468
Radium 226/228	25 pCi/L	25 pCi/L ± 10%	80.0%	5 pCi/L	5 pCi/L	N/A	J-00120930
Selenium	0.09 mg/L	0.10 mg/L ± 10% (added as ½ selenite and ½ selenate)	97.9%	0.002 mg/L	0.05 mg/L	N/A	J-00121467
Total Dissolved Solids (TDS)	771	750 mg/L ± 40 mg/L (added as sodium chloride)	93.8%	48 mg/L	N/A	≥ 75%	J-00109636
Turbidity	11 NTU	11 ± 1 NTU	99.1%	<0.1 NTU	0.5 NTU	N/A	J-00121471

Contaminant reduction testing is conducted every five years by certifying agency to maintain certification.

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

Parts and service available from:

Puronic Water Systems, Inc.
5775 Las Posita Road
Livermore, CA 94551 U.S.A
phone: 925-456-7000
Fax: 925-456-7010
www.purionics.com

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Application Guidelines/Water Supply Parameters			
Membrane Type	TFCM	Water Supply Parameters	
Water Supply, chlorinated or non-chlorinated		Component	Limit
		Hardness	<350 mg/L
Water Pressure	40-100 psi (276 -690 kPA)	Iron	<0.1 mg/L
Water Temperature (Cold Water use only)	40° F - 100° F (4.4° C - 38° C)	Manganese	<0.05 mg/L
pH Range	4.0 – 11.0	Hydrogen Sulfide	0
Maximum TDS level	2000	Turbidity	<1 NTU

System Production: 8.28 gal/day (31.3 L/day)

Post Filter Chlorine Taste and Odor capacity: 1,500 gallons (5,678 liters)

System Efficiency: 13.06% Efficiency rating means the percentage of the influent water to the system that is available to the user as reverse osmosis treated water under operating conditions that approximate typical daily usage.

This system shall only be used for arsenic reduction on chlorinated water supplies containing detectable residual free chlorine at the system inlet.

NOTICE: To reduce the risks associated with water leakage, which if not avoided, may result in property damage – check with your plumbing professional to verify that water pressure is less than 100 psi.

Components	
Sediment Prefilter:	5 Micron Depth/Activated Carbon
Membrane Type:	Thin Film Composite (TFCM)
Carbon Postfilter:	Activated Carbon
Tank Capacity:	2.22 gal max
See parts diagram for details.	

⚠ WARNING

To reduce the risk associated with ingestion of contaminants:

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before and after the system. Systems certified for cyst reduction may be used on disinfected water that may contain filterable cysts.
EPA Establishment Number 070595-MEX-001

NOTICE

To reduce the risk associated with water leakage or flooding:

- Read and follow Use Instructions before installation and use of this system.
- Change the disposable filter cartridges at the recommended interval; the disposable **47-126001PRI** (SQC4 pre-filter cartridge), **47-124001PRI** (SQC3 pre-filter cartridge), **47-125001PRI** (SQC4 granular carbon pre-filter cartridge) and **47-55730PRI** (SQC3 and SQC4 post filter cartridge) MUST be replaced every 12 months or sooner
- Change the disposable RO membrane module at the recommended interval; the disposable **66-5706PRI** RO membrane module MUST be replaced every 36 months or sooner.

Failure to replace the disposable filter cartridges and membrane module at recommended intervals may lead to reduced filter performance and failure of the filters and /or module, causing property damage from water leakage or flooding.

Important Quality Assurance Requirements: These Reverse Osmosis Drinking Water Appliances contain treatment components that are critical for effective reduction of Total Dissolved Solids as well as inorganic contaminants. We strongly recommend that the user test the water a minimum of every 6 months to verify that the appliance is performing satisfactorily.

This reverse osmosis system contains a replaceable component model **66-5706PRI (P/N: 66-880201)** critical to the efficiency of the system. Replacement of the reverse osmosis component should be with one of the identical specifications, as defined by the manufacturer, to provide you with the same efficiency and contaminant reduction performance.

It is essential that the manufacturer's recommended installation, maintenance and filter replacement requirements be carried out for the product to perform as advertised. Failure to do so may result in product failure and property damage including leakage and will void warranty.

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Routine Maintenance

Sediment Prefilter and Carbon Postfilter: Change every year depending on feed water quality.

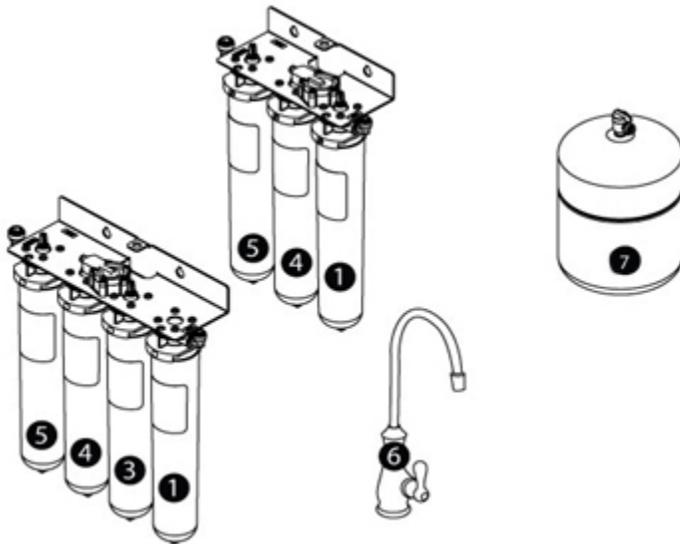
Membrane: Change as required based on periodic TDS rejection tests or an on-site monitor (PR). The maximum recommended service life is 36 months. If a Percent Rejection (PR) Monitor is not used, then your dealer may offer a semi-annual testing service.

Warranty

Entire System: **10 years**

R. O. Membrane: **2 years**
Service life of membrane varies with local water conditions, and is thus not warranted.

Parts Diagram



Parts List

- 1) 47-126001PRI Sediment Prefilter for **Micromax 6500** – P/N: (47-126002PRI)
- 2) 47-124001PRI Sediment Carbon Prefilter for **Micromax 6000** - P/N: (47-124002PRI)
- 3) 47-125001PRI Carbon Prefilter for **Micromax 6500**– P/N: (47-125002PRI)
- 4) 66-5706PRI RO Membrane module for **Micromax 6000/6500** – P/N: (66880201)
- 5) 47-55730PRI Carbon Postfilter for **Micromax 6000/6500** – P/N: (47-9311G2PRI)
- 6) Faucet for **Micromax 6000/6500**– P/N: (6221544)
- 7) Storage Tank for **Micromax 6000/6500** - P/N: (56-18125)
- 8) SFC HF Flow Control for **Micromax 6000/6500** (Not pictured) – P/N: (52-318212)

Please visit www.puronics.com or call 1-800-339-8780 to obtain prices of replacement parts.

Parts and service available from:

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Systems must be installed and operated in accordance with manufacturer's recommended procedures and guidelines. Failure to follow installation, operation, and maintenance instructions may result in leakage and will void warranty. See Installation Manual for Warranty information.

This system has been tested for the treatment of water containing pentavalent arsenic (also known as As (V), As (+5), or arsenate) at concentrations of 0.30 mg/L or less. This system reduces pentavalent arsenic, but may not remove other forms of arsenic. This system is to be used on water supplies containing a detectable free chlorine residual or on water supplies that have been demonstrated to contain only pentavalent arsenic. Treatment with chloramine (combined chlorine) is not sufficient to ensure complete conversion of trivalent arsenic to pentavalent arsenic. Please see the Arsenic Facts section below for further information.

ARSENIC FACT SECTION

Arsenic (abbreviated As) is found naturally in some well water. Arsenic in water has no color, taste or odor. It must be measured by a lab test. Public water utilities must have their water tested for arsenic. You can get the results from your water utility. If you have your own well, you can have the water tested. The local health department or the state environmental health agency can provide a list of certified labs. The cost is typically \$15 to \$30. Information about arsenic in water can be found on the internet at the US Environmental Protection Agency website: www.epa.gov/safewater/arsenic.html

There are two forms of arsenic: pentavalent arsenic (also called As(V) or As+5), and arsenate) and trivalent arsenic (also called As(III), As(+3), and arsenite). In well water, arsenic may be pentavalent, trivalent, or a combination of both. Special sampling procedures are needed for a lab to determine what type and how much of each type of arsenic is in the water. Check with the labs in your area to see if they can provide this type of service.

Reverse osmosis (RO) water treatment systems do not remove trivalent arsenic from water very well. RO systems are very effective at reducing pentavalent arsenic. A free chlorine residual will rapidly convert trivalent arsenic to pentavalent arsenic. Other water treatment chemicals such as ozone and potassium permanganate will also change trivalent arsenic to pentavalent arsenic. A combined chlorine residual (also called chloramines) may not convert all the trivalent arsenic. If you get your water from a public water utility, contact the utility to find out if free chlorine or combined chlorine is used in the water system.

The Micromax 6000 TFC and Micromax 6500 TFC system is designed to reduce pentavalent arsenic. It will not convert trivalent arsenic to pentavalent arsenic. The system was tested in a lab. Under those conditions, the system reduced [0.30 mg/L (ppm) or 0.050 mg/L (ppm)] pentavalent arsenic to 0.010 mg/L (ppm) (the USEPA standard for drinking water) or less. The performance of the system may be different at your installation. Have the treated water tested for arsenic to check if the system is working properly

The pentavalent arsenic reduction component of this system must be replaced at the end of its useful life of three years. The replacement component 66-5706PRI (P/N: 66-880201) can be purchased from the original point of purchase or from Puronics Water Systems, Inc. at 1-800-339-8780.

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