



# PERFORMANCE DATA SHEET

THANK YOU for purchasing this high-quality product.

## DRINKING WATER SYSTEM MODEL: M-550



Tested and certified by NSF International against NSF/ANSI Standard 58 for the reduction of the claims specified on the Performance Data Sheet.

This drinking water system contains replaceable treatment components critical for effective performance. It is the user's responsibility to, and the manufacturer strongly recommends that the user, periodically test the product water to verify that system is performing satisfactorily.

If MAYTAG® replacement filters and modules are not used, health related contaminant reduction claims are invalid.

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## DRINKING WATER SYSTEM MODEL M-550

**REDUCTION PERFORMANCE CLAIMS:** This system has been tested according to NSF/ANSI 58 for 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 58. Testing was performed under standard laboratory conditions. Actual performance may vary.

	NSF/ANSI 58 Standard Requirements		Actual Test Results
	Influent Challenge Concentration (mg/l) <sup>1</sup>	Maximum Allowable Product Water Concentration (mg/l) <sup>1</sup>	Average % Reduction <sup>2</sup>
Arsenic (Pentavalent) <sup>3</sup>	0.30 ± 10%	0.010	97
Barium	10.0 ± 10%	2.0	96
Cadmium	0.03 ± 10%	0.005	98
Chromium (Hexavalent)	0.30 ± 10%	0.1	96
Chromium (Trivalent)	0.30 ± 10%	0.1	98
Copper	3.0 ± 10%	1.3	99
Fluoride	8.0 ± 10%	1.5	94
Lead	0.15 ± 10%	0.010	99
Nitrate + Nitrite (both as N) <sup>4</sup>	30.0 ± 10%	10.0	86
Nitrate (as N) <sup>4</sup>	27.0 ± 10%	10.0	87
Nitrite (as N) <sup>4</sup>	3.0 ± 10%	1.0	77
Radium 226/228 <sup>5</sup>	25 pCi/l ± 10%	5 pCi/l	80
Selenium	0.1 ± 10%	0.05	97
Total Dissolved Solids	750 ± 40 mg/l	187	95

Test Parameters:	
pH	7.5±0.5
Turbidity	< 1 NTU
Temperature	77±2 °F (25±2 °C)
Pressure	50 PSIG (345 kPa)
1	Unless otherwise indicated.
2	Average based upon actual test data.
3	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 at the system inlet 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 of the Performance Data Sheet for further information.
4	This system is acceptable for treatment of influent concentrations of no more than 27 mg/L nitrate and 3 mg/L nitrite in combination measured as N and is certified for nitrate/nitrite reduction only for water supplies with a pressure of 40 PSIG (280 kPa) or greater.
5	The reduction of Radium was verified by using Barium as a surrogate under NSF/ANSI Standard 58.

### APPLICATION GUIDELINES/SPECIFICATIONS AND FEATURES

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.

Water Supply Parameters	Chemical	Limit	
Water Pressure:	40 - 100 PSIG (280 - 690 kPa)	Hardness:	<170 mg/l
Water Temperature:	40° - 100° F (4° - 38° C)	Iron:	<0.1 mg/l
pH Operating Range:	4 - 11	Manganese:	<0.05 mg/l
Optimum rejection at pH:	7.0 - 7.5	Hydrogen Sulfide:	0
Max. T.D.S. Level:	2000 ppm	Water supplies that exceed limits for Hardness, Iron, Manganese and Hydrogen Sulfide require pretreatment.	

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## DRINKING WATER SYSTEM ASSEMBLY COMPONENTS

Sediment/Carbon Pre-filter:	5 Micron/Activated Carbon Block Filter, Part No. S7228X-M
Membrane Type:	Thin Film Composite (T.F.C.), Part No. S1340RSX-LEM
Carbon Post Filter:	Activated Carbon Filter, Part No. S7225X-M
In-Line Carbon Post Filter:	In-Line Activated Carbon Filter, Part No. S7206W-JG
Refer to owner's manual for proper operation, installation instructions, warranty information, service interval recommendations, parts and service availability. See the test kit(s) for sampling instructions.	

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### SYSTEM RATING

- **Average T.D.S. Reduction:** 95%
  - **System Production:** 12 gallons/day (45 L/day)
  - **Recovery Rating:** 30%  
Recovery rating means the percentage of the influent water to the membrane portion of the system that is available to the user as reverse osmosis treated water when the system is operated without a storage tank or when the storage tank is bypassed.
  - **Efficiency Rating:** 14% Measured at 50 PSIG (345 kPa), 77 °F±2 °F (25 °C±2 °C), 750±40 mg/L T.D.S., per section 6 of NSF/ANSI standard 58 product water to pressurized storage tank.  
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.  
Sodium Chloride was used as a surrogate for T.D.S. System rating determined by laboratory testing at NSF.
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### MEMBRANE RATING

- **Membrane Production:** 41-53 gallons/day (155-201 L/day)
  - **Membrane T.D.S. Reduction:** 96% minimum  
**NOTE:** Measured at industry standard condition of 65 PSIG (448 Kpa), 77 °F, (25 °C), 250 ppm T.D.S., and discharging to atmosphere. Actual system production and contaminant reduction will depend upon water temperature, pressure, pH and T.D.S. level, membrane variation and usage pattern.
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### ARSENIC FACTS

- Arsenic (As) is a naturally occurring contaminant found in many ground waters. It generally occurs in two forms (valences or oxidation states): pentavalent arsenic (also known as As(V), As(+5), or arsenate) and trivalent arsenic (also known as As(III), As(+3), or arsenite). In natural ground water, arsenic may exist as trivalent arsenic, pentavalent arsenic, or a combination of both. Although both forms of arsenic are potentially harmful to human health, trivalent arsenic is considered more harmful than pentavalent arsenic. More information about arsenic and its toxicity can be found on the U.S. Environmental Protection Agency website at: <http://www.epa.gov/safewater/arsenic.html>.
- This system is designed to remove only PENTAVALENT ARSENIC. This treatment system DOES NOT provide a feature for conversion of trivalent arsenic to pentavalent arsenic. The system may remove some trivalent arsenic; however, it has not been evaluated for its ability to remove trivalent arsenic.
- Trivalent arsenic is generally more difficult to remove from drinking water than pentavalent arsenic. Trivalent arsenic can be converted to pentavalent arsenic in the presence of an effective oxidant such as free chlorine. The arsenic in water containing detectable free chlorine or that has been treated with another effective oxidant will be in the pentavalent arsenic form. Treatment with chloramine (combined chlorine) is not sufficient to ensure complete conversion of trivalent arsenic to pentavalent arsenic.
- Consumers using public water supplies can contact their utility to verify whether free chlorine treatment chemicals are being used. Private water supplies and waters that do not have detectable free chlorine residuals should be analyzed to determine the form(s) of arsenic present and the potential need for oxidation of trivalent arsenic to pentavalent arsenic.
- Arsenic does not generally impart color, taste or smell to water, therefore, it can only be detected by a chemical analytical test. Public water supplies are required to monitor treated water for total arsenic (trivalent arsenic plus pentavalent arsenic) and the results are available to the public from the utility. Consumers using private water sources will need to make arrangements for testing. A total arsenic test usually costs about \$15-\$30 and it is recommended the test be conducted by a certified laboratory. Local health departments or environmental protection agencies can help provide consumers with a list of certified laboratories. Some laboratories may also be able to analyze specifically for speciate the two forms of arsenic present in a water sample if requested.
- This treatment system was tested under laboratory conditions as defined in NSF/ANSI 58 Reverse Osmosis Drinking Water Treatment Systems and was found to reduce 0.30 mg/L influent arsenic challenge concentration in the test water to less than 0.010 mg/L, under standard testing conditions. Actual performance of the system may vary depending on specific water quality conditions at the consumer's installation. Following installation of this system, the consumer should have the treated water tested for total arsenic to verify arsenic reduction is being achieved and the system is functioning properly.
- The pentavalent arsenic removal component of this system (the membrane) must be replaced at the end of its useful life. Typical membrane life expectancy is three years. Local conditions may dictate more frequent changes. For replacement parts contact the local dealer who supplied the unit or contact the factory for the dealer nearest you.

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