



Hellenbrand. Achieve Aqualibrium.™

Hellenbrand treated water is in perfect balance and harmony with our lives, our homes and the environment. It's water the way nature intended, by reducing unwanted impurities.

Our Millennium Drinking Water System provides you with proven technology and unmatched performance. You get healthy hydration, without the impurities generally associated with household tap water. We use multiple stages of filtration to remove virtually everything from your water that can affect its taste, smell and overall healthful benefits.

Achieve water in perfect balance and harmony. Achieve Aqualibrium with Hellenbrand.

Convenience, Quality & Savings

- > Delicious clean, clear, water at your fingertips
- > High-performance output delivers flavorful beverages, cleanly-rinsed fruits & vegetables, better tasting soups, sauces and meals
- > Costs only pennies per day

The Millennium Drinking Water System is ideal for:

- > Drinking Water, Coffee, Tea, Juice, Beverages and Mixes
- > Weight-Loss & Low-Sodium Diets
- > Baby Formulas
- > Ice Cubes
- > Watering Plants
- > Aquarium and Pet Drinking Water
- > Steam Irons and Humidifiers
- > Rinsing Crystal & Silverware
- > Washing Windows

Independently  Certified

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

We filter four times for healthy, crystal-clear drinking water.

Pre-Filter

The Millennium pre-filter is a sediment/carbon block cartridge designed to remove dirt, sand, and other particulate matter down to the 5-micron level; along with chlorine, taste and odors.

Membrane

Water travels from the pre-filter into the membrane. The majority of the dissolved solids and other substances are removed and flushed down the drain.

Post-Filter

Any tastes or odors remaining in the water will be reduced by the carbon post-filter before the water enters the storage tank.

Polishing Filter

Before reaching the faucet, the water from the storage tank flows through one final stage of filtration - another activated carbon filter. This extra filter assures you of good tasting, crystal clear water.

Millennium DRINKING WATER SYSTEM



Independently  Certified

Additional Features

Simple Maintenance

Maintenance is simple. Change the pre-filter and post-filters every 6 to 12 months. The membrane typically lasts several years. The optional quality monitor on your faucet will let you know when it is time to change the membrane.

Automatic Shutoff

The automatic shutoff tells the system when the storage tank is full. It also tells the system when water is being used and when it is time to filter more water.

Optional Water Quality Monitor

The long-reach, stylish faucet has an option of a convenient water quality indicator light located in the base. Simply push the water quality check button on the faucet base. A green light indicates your system is functioning at peak efficiency. If the amber light comes on, there may be a problem or it might be time to change the membrane.

Convenient Installation

Your Millennium Drinking Water System can be installed under your kitchen sink, in a cabinet or in your basement.

Product Specifications

Tested According to NSF/ANSI Standard 58 for the Reduction of:

Nitrates	80%
Lead	98%
Arsenic (pentavalent)	98%
Fluoride	95%
Radium	80%
TDS	93%

Testing Parameters:

pH	7.5±0.5
Turbidity	≤ 1 NTU
Temperature	77° ± 2°F
Pressure	50 psig

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Hellenbrand®

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Hellenbrand products are not for sale or distribution into the State of California effective 8/31/18

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Reverse Osmosis Drinking Water System

Model MRO-35

PERFORMANCE DATA SHEET



Tested and Certified by NSF International against NSF/ANSI Standard 58 for the reduction of: Arsenic (Pentavalent), Barium, Cadmium, Chromium (Hexavalent), Chromium (Trivalent), Copper, Fluoride, Lead, Nitrate, Nitrite, Radium 226/228, Selenium and TDS.

This reverse osmosis 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.

A note for systems with the Water Quality Monitor:

The Water Quality Monitor has been integrated into the system cover for instant monitoring at the touch of a button. The monitor compares the level of the total dissolved solids in the incoming (feed) water versus the product water and calculates the percent rejection. The monitor is preset to indicate a level of 75% rejection. NSF/ANSI Standard 58 requires a 75% total dissolved solids rejection to pass the requirement of the standard.

A green light indicates that the percent rejection is at or above the set (desired) value and that the system is producing quality water.

An amber light indicates that the product water quality is less than acceptable. Because the Water Quality Monitor was designed to operate best while the system is making water, a false reading may occur if tested when your R.O. drinking water system is not making water. Please empty the storage tank, wait 15 minutes for the system to begin making water, and test your water quality again. If the Water Quality Monitor light is still amber, change the 9 volt battery and test your water quality again. If the Water Quality Monitor light is still amber, please contact a water treatment professional for service. The Water Quality Monitor requires a 9 volt battery, which is included.

If Millennium replacement filters and membranes are not used, health related contaminant reduction claims are invalid.

MILLENNIUM REVERSE OSMOSIS DRINKING WATER SYSTEM

MODEL MRO-35

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	Test Parameters:
	Influent Challenge Concentration (mg/l) ¹	Maximum Allowable Product Water Concentration (mg/l) ¹	Average % Reduction ²	
Arsenic (Pentavalent) ³	0.30 ± 10%	0.010	97	pH 7.5±0.5
Barium	10.0 ± 10%	2.0	96	Turbidity ≤ 1 NTU
Cadmium	0.03 ± 10%	0.005	98	Temperature 77°±2° F
Chromium (Hexavalent)	0.30 ± 10%	0.1	96	Pressure 50 psig
Chromium (Trivalent)	0.30 ± 10%	0.1	98	1 Unless otherwise indicated.
Copper	3.0 ± 10%	1.3	99	2 Average based upon actual test data.
Fluoride	8.0 ± 10%	1.5	94	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.
Lead	0.15 ± 10%	0.010	99	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 280 kPa (40 psig) or greater.
Nitrate + Nitrite (both as N) ⁴	30.0 ± 10%	10.0	86	5 The reduction of Radium was verified by using Barium as a surrogate under NSF/ANSI Standard 58.
Nitrate (as N) ⁴	27.0 ± 10%	10.0	87	
Nitrite (as N) ⁴	3.0 ± 10%	1.0	77	
Radium 226/228 ⁵	25 pCi/l ± 10%	5 pCi/l	80	
Selenium	0.1 ± 10%	0.05	97	
Total Dissolved Solids	750 ± 40 mg/l	187	95	

APPLICATION GUIDELINES/SPECIFICATIONS AND FEATURES

Water Supply Parameters	Chemical	Limit	Caution: Do not use with water that is microbiologically unsafe or of unknown quality, without adequate disinfection before or after the system.
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.		

DRINKING WATER SYSTEM ASSEMBLY COMPONENTS

Sediment/Carbon Prefilter:	5 Micron/Activated Carbon Block Filter, Part No. S7128
Membrane Type:	Thin Film Composite (T.F.C.), Part No. S1448RS
Carbon Post Filter:	Activated Carbon Filter, Part No. S7125
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.

SYSTEM RATING

Average T.D.S. Reduction: 95%
System Production: 12 gallons per day (45 liters per day) **Recovery Rating:** 30% **Efficiency Rating:** 14%
 Measured at 50 psig, 77°±2°F, 750±40 mg/L T.D.S., per section 6 of NSF/ANSI standard 58 product water to pressurized storage tank. 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 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.

MEMBRANE RATING

Membrane Production: 41-53 gallons per day (155–201 liters per day) **Membrane T.D.S. Reduction:** 96% minimum
 Note: Measured at industry standard condition of 65 psig, 77°F, 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.

ADDITIONAL STATE OF IOWA INFORMATION

FOR IOWA USE ONLY

Seller Name

Address

Phone

Seller Signature

Customer Signature

Date

(Signatures required prior to sale only in Iowa and signed sheet to be retained by seller for two years.)

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 R.O. 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.



HELLENBRAND, INC.

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**R.O. DRINKING WATER SYSTEM
FIVE/ONE YEAR LIMITED WARRANTY**

What Does This Warranty Cover?

This warranty covers any defects in materials and workmanship of the Millennium R.O. Drinking Water System when installed and operated within recommended parameters, with the exceptions stated below.

How Long Does The Coverage Last?

Hellenbrand, Inc.® will warrant its Millennium R.O. Drinking Water System (except for the reverse osmosis membrane), for a period of five years from the date of purchase. The reverse osmosis membrane is warranted for one year from date of purchase. All implied warranties including merchantability and fitness for a particular purpose are limited to five years from the date of purchase for the Millennium R.O. Drinking Water System, except for the reverse osmosis membrane which is limited to one year from date of purchase. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

What Will Hellenbrand, Inc.® Do?

Hellenbrand, Inc.® will repair or replace at its discretion any defective component. You must pay any labor charges. You must also pay for shipping or travel charges to return the defective part(s).

What Does This Warranty Not Cover?

This warranty does not cover the disposable sediment and carbon filters whose service life depends on feed water conditions. In addition, the membrane is only warranted if the required feed water conditions are met.

The above warranty will also not apply to any part of the Millennium R.O. Drinking Water System that is damaged because of neglect, misuse, alterations, accident, misapplication, physical damage, or damage caused by fire, acts of God, freezing or hot waters or similar causes. Consequential and incidental damages are not recoverable under this warranty. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

We recommend that you use only authorized Millennium replacement parts since improper parts or incorrectly performed maintenance or repair voids this warranty. In addition, if non Millennium parts are used, contaminant reduction claims, certifications to/from NSF/ANSI Standard 58, and/or state approvals are no longer valid.

How Do You Get Service?

In order to be eligible for service under this warranty you must (a) contact your local dealer who supplied the unit or (b) contact the factory for the dealer nearest you.

How Does State Law Apply?

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. Hellenbrand products are not for sale or distribution into the State of California effective 8/31/18.


Hellenbrand

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