

Performance Data Sheet

Model: CMTRO-75

Use Replacement Cartridge 47-55706G2, 66-4710G2, 47-55710G2

Reverse Osmosis / Activated Carbon Drinking Water Appliance

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 and Standard 58.



System tested and certified by NSF International against NSF/ANSI Standard 42 and Standard 58 for the reduction of substances as listed below.

Capacity 23.59 gpd (gallons per day) 89.29 lpd (liters per day)

Contaminant Reduction Determined by NSF testing.

Parameter	Average Influent	NSF specified Challenge Concentration	Avg % Reduction	Average Product Water Concentration	Max Permissible Product Water Concentration	NSF Reduction Requirements
Arsenic (pentavalent)	0.29 mg/L	0.30 mg/L + 10%	99.3%	0.002 mg/L	0.01 mg/L	N/A
Barium*	9.5 mg/L	10 mg/L ± 10%	98.5%	0.14 mg/L	2.0 mg/L	N/A
Cadmium	0.031 mg/L	0.03 mg/L ± 10%	98.1%	0.0006 mg/L	0.005 mg/L	N/A
Chromium (Hex.)	0.3 mg/L	0.3 mg/L ± 10%	97.7%	0.007 mg/l	0.1 mg/L	N/A
Chromium (Tri.)	0.31 mg/L	0.3 mg/L ± 10%	99%	0.003 mg/L	0.1 mg/L	N/A
Copper	3.0 mg/L	3.0 mg/L ± 10%	98.7%	0.038 mg/L	1.3 mg/L	N/A
Fluoride	8.6 mg/L	8.0 mg/L ± 10%	95.5%	0.39 mg/L	1.5 mg/L	N/A
Lead	0.16 mg/L	0.15 mg/L ± 10%	98.1%	0.003 mg/L	0.010 mg/L	N/A
Radium 226/228*	25 pCi/L	25 pCi/L ± 10%	80%	5 pCi/L	5 pCi/L	N/A
Selenium	0.1 mg/L	0.10 mg/L ± 10%	>94.0%	< 0.006 mg/L	0.05 mg/L	N/A
Total Dissolved Solids (TDS)	738 mg/L	750 ± 40 mg/L	94.2%	43 mg/L	187 mg/L	N/A
Turbidity	11 NTU	11 ± 1 NTU	99.3%	0.08 NTU	0.5 NTU	N/A
Cyst	127,692 pts/L	Minimum 50,000 pts/L	99.99%	6 pts/L	N/A	≥99.95%
Chlorine Taste and Odor	2.0 mg/L	2.0 mg/L ± 10%	78%	0.04 mg/L	N/A	≥ 50%

*Barium is a surrogate for radium.

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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	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: 23.59 gal/day (89.29 L/day)

Post Filter Chlorine Taste and Odor capacity: 2,500 gallons (9,463 liters)

System Efficiency: 12.39% 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.

System Recovery: 25.63% 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.

It is essential that the manufacturer's recommended installation, maintenance and filter replacement requirements be carried out for the product to perform as advertised. See Installation Manual for Warranty information.

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

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.

Replacement Cartridge: 47-55706G2, 66-4710G2, 47-55710G2. For estimated costs of replacement elements please call 1-800-733-1199 or visit our website at www.cuno.com



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-CT-001

CAUTION

To reduce the risk associated with property damage due to water leakage:

- **Read and follow** Use Instructions before installation and use of this system.
- Installation and use **MUST** comply with all state and local plumbing codes.
- **Do not** install if water pressure exceeds 100 psi (690 kPa). If your water pressure exceeds 80 psi, you **must** install a pressure limiting valve. Contact a plumbing professional if you are uncertain how to check your water pressure.
- **Do not** install where water hammer conditions may occur. If water hammer conditions exist you **must** install a water hammer arrester. Contact a plumbing professional if you uncertain how to check for this condition.
- **Do not** install on hot water supply lines. The maximum operating water temperature of this filter system is 100° F (38° C).
- **Protect filter from freezing.** Drain filter when temperatures drop below 40°F (4.4°C).
- The disposable filter cartridge **must** be replaced every **18** months, at the rated capacity or if a noticeable reduction in flow rate occurs.

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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 of the Performance Data Sheet 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 removing 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 CMTRO-75 system is designed to remove 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 removal component of this system must be replaced at the end of its useful life of three years. The replacement component 66-4710G2 can be purchased from the original point of purchase or from Water Factory Systems at 1-800-733-1199.

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Parts and service available from:



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