

Performance Data Sheet

AQUAPHOR[®] DRINKING WATER MACHINE

MODEL AQUAPHOR DWM-101

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:	
	Maximum Allowable Influent concentration (mg/l) ¹	Product Water concentration (mg/l) ¹	Average % Reduction ²		
Total Dissolved Solids	750 + 40 mg/l	187	93 with TFC membrane	pH	7.5±0.5
Total Dissolved Solids	750 + 40 mg/l	187	93 with TFC membrane	Turbidity	≤ 1 NTU
				Temperature	77±2°F
				Pressure	50±3 psig
				1 Unless otherwise indicated.	
				2 Average based upon actual test data.	

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. Systems certified for cyst reduction may be used on disinfected water that may contain filterable cysts.
Water Pressure: 27.6–91.4 psig (190–630 kPa)	Hardness:	<171 mg/l	
Water Temperature: 41°–100.4°F (5°–38°C)	Iron:	<0.1 mg/l	
pH Operating Range: 4–10	Manganese:	<0.05 mg/l	
Max. T.D.S. Level: 2000 ppm	Hydrogen Sulfide:	0	
	Water supplies that exceed limits for Hardness, Iron, Manganese and Hydrogen Sulfide require pretreatment.		

DRINKING WATER SYSTEM ASSEMBLY COMPONENTS

Sediment Prefilter:	5 Micron/Replacement filter cartridge K5
Carbon Block Prefilter	Replacement filter cartridge K2
Membrane Type (1):	Thin Film Composite (T.F.C.), TF-1812-50
Membrane Type (2):	Ultra Low Pressure (U.L.P), ULP1812-50
Postfilter:	Replacement filter cartridge K7M

Refer to owner's manual and Installation Guide for proper operation, installation instructions, warranty information, service interval recommendations, parts and service availability. See the test kit(s) for sampling instructions.

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. If AQUAPHOR[®] replacement filters and membranes are not used, health related contaminant reduction claims are invalid.

SYSTEM RATING

	with TFC membrane	with ULP membrane
Average T.D.S. Reduction:	92.8%	96.7%
System Production:	36.87 gallons per day (139.6 liters per day)	25.96 gallons per day (98.3 liters per day)
Recovery Rating:	11.05%	33.63%
Efficiency Rating:	12.87%	10.52%

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: 50 gallons per day (189.3 liters per day) **Membrane T.D.S. Reduction:** 96% minimum

Note: Measured at industry standard condition of 60 psig, 77°F, 250 ppm T.D.S. (550 ppm for TFC membrane), 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.



System Tested and Certified by NSF
International against NSF/ANSI Standard 58 for
the reduction of TDS

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