

# Topper Manufacturing Corporation

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## Performance Data Sheet

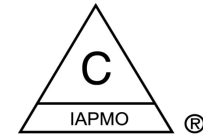
### TOPPER MFG RO DRINKING WATER SYSTEM

### MODEL WOWRO™ 50 - 20-209-001

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
Nitrate (as NO <sub>3</sub> ) 26.9 + 10%	9.2	96.5
Nitrite (as NO <sub>2</sub> ) 2.8 + 10%	.01	96.4
Arsenic (Pentavalent) 48.0 + 10% (ppb)	5.03 (ppb)	96.2

pH: 7.5 +/- 0.5, Temp: 25 +/- 1 degree C, TDS: 740ppm, PSI: 40lbs  
Turbidity (<1 NTU): 0.15

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 48.0/ppb or less. This system reduces pentavalent arsenic, but may not remove other forms of arsenic. This system is to be used on watersupplies 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 Performance Data Sheet for further information.



This WOWRO 50 RO System is Certified by IAPMO R&T against NSF/ANSI 58 for the reduction of Claims specified in the Performance Data Sheet

#### WOWRO™ SYSTEM ASSEMBLY COMPONENTS

<b>Sediment/Carbon Prefilter:</b>	Pleated Activated Carbon
<b>Membrane Type:</b>	AM-88 Thin Film Composite (T.F.C.)
<b>Carbon Post Filter:</b>	5 Micron/Activated Carbon Block (Catalytic Coconut Shell Mesh blend)

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.

#### MEMBRANE RATING

**Membrane Production:** 50-63 gallons per day (189–238 liters per day) **Membrane T.D.S. Reduction:** 96% minimum  
Note: Measured at industry standard condition of 65 psig, 68°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.

**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. Retesting occurs every five years. Testing was performed under standard laboratory conditions. Actual performance may vary.

**NSF/ANSI 58 Standard Requirements - Test Parameters:** pH-7.5±0.5 Temperature-77°±1°F Pressure-50 psig TDS-710-790 mg/L  
**Tested -** 125psi x 3 = 375psi / 15 minutes (Complied), 100,000 cycles @ 0-150 psi (Complied)

#### WOWRO™ CERTIFICATION RESULTS

**Average T.D.S. Reduction:** 95.4% **System Production:** 30.5 GPD (113 liters per day)

**Efficiency Rating:** 27.50% **Recovery Rating:** 50%

Rated at 50 psi, (345 kPa), Temp 68°±5°F, 710-790 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.

**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.

#### OPERATIONAL SPECIFICATIONS

pH cannot be lower than 3 or higher than 11

Water Pressure: 20–125 psig (138–862 kPa)

Water Temperature: 40°–100° F (4°–38° C)

Total Dissolved Solids (TDS) cannot exceed 1500 ppm

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.

ALL SYSTEMS MUST BE ON COLD WATER LINES ONLY

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