



Water Products

Performance Data Sheet

Models ISO-450R, ISO-550R, PT-504, PT-505, PT-504P, PT-505P



PLATINUM SEAL CERTIFICATION

This system has been tested and certified by IAPMO Research and Testing 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 by NSF/ANSI 58. Test results; Average Clean Water Production Rate = 32 gpd at an efficiency rate percentage of 14.6% efficiency. Efficiency rating is the percentage of influent water to the system that is available to the user as reverse osmosis treated water under operating conditions that approximate typical daily usage. Test parameters: 25°C, 50psig and pH of 7.5. Performance under actual conditions may vary.

Contaminant Reduction Summary

Substance	Influent Challenge Concentration mg/L	Max permissible product water concentration mg/L	Minimum Percent (%) Reduction	Average Percent (%) Reduction
*Arsenic (+5)	0.30 ± 10%	0.010	98.7	99.6
Barium	10.0 ± 10%	2.0	97.7	98.8
Cadmium	0.03 ± 10%	0.005	97.3	98.8
Chromium (+6)	0.3 ± 10%	0.1	97.6	99.1
Chromium (+3)	0.3 ± 10%	0.1	99.6	99.7
Copper	3.0 ± 10%	1.3	98.3	99.0
Fluoride	8.0 ± 10%	1.5	96.3	97.7
Lead	0.15 ± 10%	0.010	99.3	99.3
Radium (226/228)	25 pCi/L	5 pCi/L	80.0	80.0
Selenium	0.10 ± 10%	0.05	97.8	98.1
TDS	750 ± 10%	187	88.0	92.2
Turbidity	11 ± 1 NTU	0.5 NTU	96.7	98.9

This system has been tested for the treatment of water containing pentavalent arsenic (also know as As(V), As(+5), or arsenate) at concentrations of [0.050 mg/L or 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 chloramines (combined chlorine) is not sufficient to ensure complete conversion of trivalent arsenic to pentavalent arsenic.

*Conforms to NSF/ANSI 58 for pentavalent arsenic reduction. For an explanation of reduction performance, go to <http://vertexwater.com/arsenic-facts>

Specifications

50 gallon per day reverse osmosis membrane
 32 gallon per day clean water production at 50 psig inlet and at 77°F(25°C)
 Storage tank: 4.0 gallon total volume; 2.2 gallon water volume
 Dimensions: 14in. long by 7in. wide by 18in. high: Tank: 11in. dia by 15 1/2in. high
 Weight: 26 pounds

Conditions of Use

Do not use with water that is microbiologically unsafe, or of unknown quality, without adequate disinfection before or after the system.

Pressure: Minimum-40psig: Maximum-100psig
 Temperature: 40 to 100°F
 pH Range = 3.0 to 10, max iron content - 0.3ppm
 Turbidity of inlet water-less than 1.0 NTU, maximum
 TDS-1500ppm

These systems contain replaceable treatment components critical to effective reduction of TDS. Replacement parts and numbers are shown below. Product water should be tested periodically to verify that the system is performing satisfactorily in addition to making the parts replacement specified.

ISO-450R, ISO-550R

RO Membrane Element 50 gpd	MA-4203
First stage sediment filter, 5-micron	TF-4113
Second stage activated carbon block	TF-4115
Optional third stage, activated carbon	TF-4114
Post filter fourth stage, GAC filter	TF-4115

Recommended Replacement Interval

once each 3 years
 once each year
 once each year
 once each year
 once each year

PT-504, PT-505, PT-504P, PT-505P

RO Membrane Element 50 gpd	MA-4203
First stage sediment filter, 5-micron	CF-4007
Second stage activated carbon block	CF-4142
Optional third stage, activated carbon	CF-4142
Post filter fourth stage, GAC filter	IF-4103

See OWNER INSTALLATION manual for complete installation/operation and maintenance requirements, including manufacturer's limited warranty.

