Performance Data Sheet - TLC-50

Manufacturing Company Information
Pentair Residential Filtration, LLC
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Milwaukee, Wisconsin 53209
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Product Brand:	Pentair
Product Model:	ESPA-DHR TLC-50
CDPH registration #	13-2155c
Replacement Cartridge	TLC- 50 (RO Membrane)

Operating Parameters	SI Units	Metric Units
System Capacity	X	X
Pressure	40-100 psi	2.8 - 7.0 Kg/cm^2
Temperature	40-100°F	4.4–37.8°C
Inlet Water Quality Limits		
Total dissolved Solids (TDS)	<2000 ppm	<2000 ppm
Maximum Hardness †‡:	10 gpg (171 mg/L)	10 gpg (171 mg/L)
Sulfide, Iron & Manganese‡:	<0.1	<0.1
Chlorine	<2 ppm	<2 ppm
pH	3–11	3–11
Turbidity	5 NTU Max.	5 NTU Max.

†If the hardness of your water is above 10 gpg (171 mg/L), lime scale will build up rapidly on the membrane inside of the RO membrane cartridge. Scale buildup
will plug the RO membrane cartridge and make the system ineffective. We do not recommend the G3RO-50 to be used with water in excess of 10 gpg (171 mg/L)
hardness, unless the water is softened prior to the reverse osmosis system.
‡See your local dealer or water treatment specialist to reduce these substances in your water.

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Contaminat Reduction Claims	Challenge Concentration	Maximum Permissible Product Water Concentration	Reduction Requirements	Reduction Average
Arsenic V	0.050 mg/L ± 10%	0.010 mg/L		97.60%
Barium	10.0 mg/L ± 10%	2.0 mg/L		96.70%
Cadmium	0.03 mg/L ± 10%	0.005 mg/L		98.70%
Chromium - hexavalent	0.3 mg/L ± 10%	0.1 mg/L		96.40%
Chromium - trivalent	0.3 mg/L ± 10%	0.1 mg/L		98.50%
Copper	3.0 mg/L ± 10%	1.3 mg/L		99.30%
Flouride	8.0 mg/L ± 10%	1.5 mg/L		94.50%
Lead	0.15 mg/L ± 10%	0.010 mg/L		99.00%
Radium 226/228	27pCi/L ± 10%	5pCi/L		80.00%
Selenium	0.10 mg/L ± 10%	0.05 mg/L		97.30%
TDS	750 mg/L ± 40 mg/L	187 mg/L		94.90%
Turbidity	11 mg/L ± 1 NTU	0.5 NTU		99.10%

This membrane has been Tested and Certified by NSF International against NSF Std. 58 for substances listed in the table above.

Note: The manufacturer is required to re-test the product every 5 years for material safety, structural integrity and all performance claims made. Any change to the product must be submitted to the certification agency for a technical review. Testing may be required sooner based on the technical review.

WARNING: 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 waters that may contain filterable cysts.

Note: The system must be installed and maintained according to manufacturer's recommendations, including replacement of filter cartridges. The contaminants or other substances removed or reduced by this system are not necessarily in your water. Please see Product Installation manual for details.