



## PRODUCT INFORMATION

### RESIDENTIAL TAP WATER RO MEMBRANE ELEMENTS 1.8" X 12"

AquaGuard® Residential Tap Water (TW) low pressure Thin Film Reverse Osmosis elements are made of Spiral Wound Composite Polyamide membrane, and are tape wrapped; ideal for residential/domestic and small laboratory RO systems.

#### Features:

- Proven reliable and consistent throughout years of operation.
- Handles water quality with a wide range of contaminants.
- Advanced membrane technology operating at low pressure.
- High GPD product water production, high rejection rate, high pH tolerance.
- Taped brine seal for durability and effective brine separation.



#### Specifications\*:

Model	Permeate Flow <sup>^</sup> GPD (l/h)	Applied Pressure PSIG (bar)	Stabilized Salt Rejection <sup>†</sup> %	Minimum Salt Rejection <sup>†</sup> %
AQ-TW1812-50	50 (7.9)	60 (4.1)	97.5	96.0
AQ-TW1812-75	75 (11.8)	60 (4.1)	97.5	96.0
AQ-TW1812-100	100 (15.8)	60 (4.1)	95.0	93.0

\* Based on internal testing results

<sup>^</sup> Permeate flow per element may vary +/- 20%

<sup>†</sup> Salt rejection and actual results will vary depending on operating conditions

#### Test Conditions:

TDS of Feed Water NaCl	250 PPM
Applied Pressure	60 PSI (3.5 bar)
Temperature	77 F (25 C)
Permeate Recovery	15%
pH Value	7.5

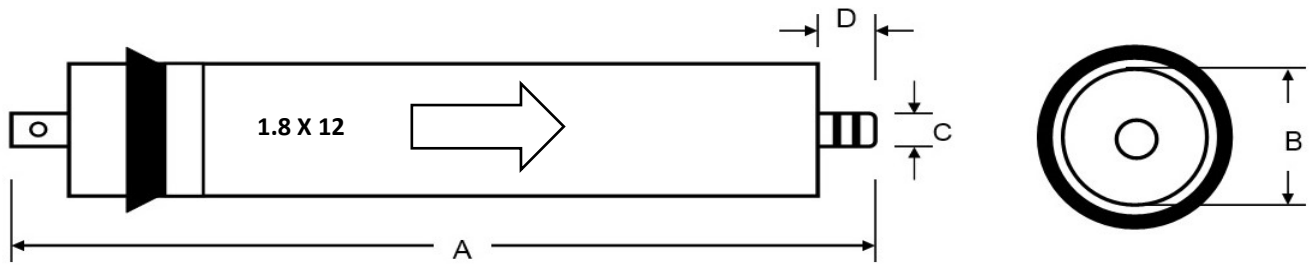
Sample collected after 60 minutes of operation.

#### Operating Limits:

Maximum Applied Pressure	150 PSI (10.3 bar)
Maximum Free Chlorine Concentration <sup>~</sup>	<0.1 PPM
Maximum Temperature <sup>‡</sup>	113 F (45 C)
Maximum Feed Flow	2.0 GPM (7.6 lpm)
pH Range During Operation <sup>‡</sup>	3 – 10
Allowable pH Range During Short Term Cleaning <sup>‡</sup>	2 – 12
Maximum Feed Water Turbidity	1.0 NTU
Maximum Feed Water SDI	5
Maximum Pressure Drop of Single Element	10 PSI (0.7 bar)

<sup>‡</sup> If feed water has pH above 9.5, then maximum temperature for continuous operation is 95 F (35 C)

<sup>~</sup> Must remove free chlorine from feed water prior to membrane exposure



**Nominal dimensions and weight:**

Model	A in (mm)	B in (mm)	C in (mm)	D in (mm)	WEIGHT <sup>w</sup> lbs. (kg)
AQ-TW1812-50	11.7" (298)	1.75" (44.5)	0.67" (17)	0.83" (21)	0.5 (0.23)
AQ-TW1812-75	11.7" (298)	1.75" (44.5)	0.67" (17)	0.83" (21)	0.5 (0.23)
AQ-TW1812-100	11.7" (298)	1.9" (48.2)	0.67" (17)	0.83" (21)	0.5 (0.23)

These elements fit standard 2" ID membrane housings

<sup>w</sup>Dry weight is approximate

**Important Notices and Essential Information:**

- Keep elements moist at all times after initial wetting.
- The membrane has some tolerance to short-term chlorine exposure (hypochlorite) within limits as noted above, but continuous exposure will damage the membrane and should be avoided.
- All local plumbing codes (or any other governing agency laws) must be adhered to before and during the installation/use of this product.
- Do not install this product on water that is microbiologically unsafe or of unknown source.
- The use of this product does not guarantee the removal of cysts and pathogens from water supply.
- Rinse and discard permeate water produced from first hour of operation. Do not use this initial permeate water for drinking or food preparation.
- This Product Information and all data herein are reviewed on a regular basis, and are subject to change without notice. Please request updated information before ordering.
- Aqua General, Inc. believes the information and data contained herein to be useful. This information and data are offered in good faith for reference only, without guarantee. We cannot control the conditions and methods of use of our products. Aqua General, Inc. assumes no liability for actual results obtained or damages incurred through the application or use of Aqua General, Inc. and/or AquaGuard® products, the presented information, and/or this data. It is the user's responsibility to determine the appropriateness of Aqua General, Inc. and/or AquaGuard® products for a particular application.

**Limited Warranty:**

This product has a 1-year pro-rated limited warranty. Under the condition that this product is operated within the specified Operating Limits, Aqua General, Inc. warrants this product to the OEM to be free of defects in manufacturing, materials, and workmanship for a period of 12 months from date of installation or 15 months from date of shipment, whichever comes first. If Operating Limits are not followed, this Limited Warranty will be null and void. The OEM is fully responsible for the effects of incompatible chemicals and lubricants on these elements; use of which will void warranty. Aqua General, Inc.'s limited warranty is subject to its sole discretion and will only be considered after receiving the product back, freight prepaid, for warranty consideration. Aqua General, Inc. is not responsible for consequential damage or damage sustained out of the use of its products. In any case, this warranty is limited only to the replacement cost of such element if found by Aqua General, Inc. to be defective at its sole discretion.

**AquaGuard® Membranes**

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