



AMFOR INC.

COMMERCIAL RO MEMBRANE

Product Specifications

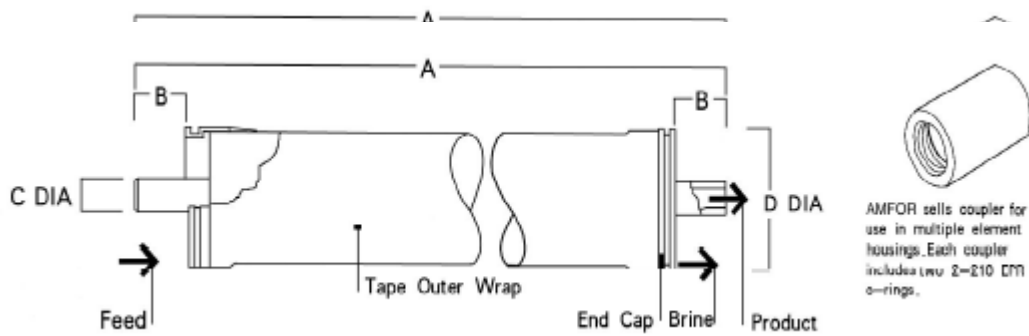
AMFOR[®] reverse osmosis (RO) elements offer the highest quality water for small commercial systems. *AMFOR membranes are available in a variety of sizes to meet a wide range of space requirements. Nowadays, AMFOR TW30XLE-3020-600, TW30XLE-3020-1000 have been widely used in commercial drinking machine. *AMFOR XLE extra low energy elements operate at the lowest pressure in the industry, resulting in lower energy costs and enabling system builders to use lower cost components. *In addition to the highest quality water and the lowest energy costs, AMFOR membranes also deliver savings by providing the industry's longest lasting and most reliable performance.

Product	Active Area Ft ² (m ²)	Applied Pressure psig (bar)	Permeate Flow Rate gpd(m ³ /d)	Stabilized Salt Rejection(%)
TW30XLE-3020-600	20(1.9)	100(6.9)	600(2.27)	98.0
TW30XLE-3020-1000	33(3.1)	100(6.9)	1000(3.78)	98.0
TW30-2514	7(0.7)	225(15.5)	200(0.76)	99.5
TW30-2521	13(1.2)	225(15.5)	325(1.23)	99.5
TW30XLE-2521	13(1.2)	100(6.9)	330(1.30)	99.0
TW30-2540	28(2.6)	225(15.5)	850(3.21)	99.5
TW30LE-2540	28(2.6)	145(10)	850(3.21)	99.2
TW30XLE-2540	28(2.6)	100(6.9)	850(3.21)	99.0
TW30-4014	20(1.9)	225(15.5)	525(1.99)	99.5
TW30-4021	36(3.3)	225(15.5)	900(3.41)	99.5
TW30XLE-4021	36(3.3)	100(6.9)	1000(3.78)	99.0
TW30-4040	87(8.1)	225(15.5)	2160(8.17)	99.5
TW30LE-4040	87(8.1)	145(10)	2340(8.85)	99.2
TW30XLE-4040	87(8.1)	100(6.9)	2340(8.85)	99.0
TW30-4611	36(3.3)	225(15.5)	900(3.41)	98.0
TW30-4619	60(5.4)	225(15.5)	1450(5.48)	99.0
TW30-4641	110(11.2)	225(15.5)	3800(14.38)	99.0

1. Permeate flow and salt rejection based on the following test conditions: TW30 elements are tested on a 2,000ppm NaCl feed stream, XLE performance based on a 500 ppm NaCl feed stream, pressure specified above, 77 °F (25°C) and the following recovery rates; TW30-3020 , TW30-2521, XLE-2521, TW30-4021, XLE-4021 - 8%, TW30-2514, TW30-4014-5%, Other-15%

2. Permeate flows for individual elements may vary +/-20%.

3. For the purpose of improvement, specifications may be updated periodically.



Product	Dimensions-Inches			
	A	B	C	D
TW30-2514	14.0(356)	1.19(30.2)	0.75(19)	2.4(61)
TW30-2521	21.0(533)	1.19(30.2)	0.75(19)	2.4(61)
TW30XLE-2521	21.0(533)	1.19(30.2)	0.75(19)	2.4(61)
TW30-2540	40.0(1016)	1.19(30.2)	0.75(19)	2.4(61)
TW30LE-2540	40.0(1016)	1.19(30.2)	0.75(19)	2.4(61)
TW30XLE-2540	40.0(1016)	1.19(30.2)	0.75(19)	2.4(61)
TW30-4014	14.0(356)	1.05(26.7)	0.75(19)	3.9(99)
TW30-4021	21.0(533)	1.05(26.7)	0.75(19)	3.9(99)
TW30XLE-4021	21.0(533)	1.05(26.7)	0.75(19)	3.9(99)
TW30-4040	40.0(1016)	1.05(26.7)	0.75(19)	3.9(99)
TW30LE-4040	40.0(1016)	1.05(26.7)	0.75(19)	3.9(99)
TW30XLE-4040	40.0(1016)	1.05(26.7)	0.75(19)	3.9(99)
TW30-4611	11.45(291)	--	0.75(19)	4.61(117)
TW30-4619	19.30(490.2)	--	0.75(19)	4.61(117)
TW30-4641	41.31(1049)	2.19(56)	0.75(19)	4.61(117)

Operation Limits

Membrane Type	Polyamide Thin-Film Composite
Maximum Operating Pressure	600psi (41bar)
Maximum Pressure Drop	13psi (0.9bar)
pH Range Continuous Operation ^a	2-11
pH Range, Short-Term Cleaning(30min) ^b	1-12
Maximum Operating Temperature	113 F(45°C)
Maximum Feed water Turbidity	1 NTU
Maximum Feed Silt Density Index	5
Free Chlorine Tolerance.....	< 0.1ppm

^a Maximum temperature for continuous operation above pH 10 is 95°F (35 °C).

^b Refer to Cleaning Guidelines of ANDE-AMF.

^c Under certain conditions, the presence of free chlorine and other oxidizing agents will cause premature membrane failure. Since oxidation damage is not covered under warranty, AMFOR recommends removing residual free chlorine by pretreatment prior to membrane exposure. Please refer to technical bulletin ANDE-AMF for more information.