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**WATERITE TECHNOLOGIES, INC.
 PRODUCT SPECIFICATION SHEET
 RO-MEM-004**

**BLACK MAX LOW/EXTRA LOW PRESSURE
 COMMERCIAL REVERSE OSMOSIS
 MEMBRANE ELEMENTS**

A. GENERAL SPECIFICATIONS

TYPE: Spiral wound TFC RO membranes, tape wrapped,
FEED WATER PRESSURE: 300 psi maximum
FEED WATER TEMP: 45° C (113° F) maximum
FEED FLOW RATE: 4" elements: 17.0 gpm maximum
 2.5" elements: 6.0 gpm maximum
COLOUR: Black external tape

DIMENSIONS:

Model No.	L		l		D	
	Inches	CM	Inches	CM	Inches	CM
BME2521SL	21	53.3	19.0	48	2.5	6.4
BME4040SXL	40	101.6	38	96	3.9	9.9



PACKAGING: Elements are shipped in sealed bags and contain a preservative solution of 1-2% (by weight) of sodium metabisulphite (food grade).

TRADE NAME: **BLACK MAX®**

B. PERFORMANCE SPECIFICATIONS

Model No.	Permeate Flow Rate		Minimum Salt Rejection (%)	Stabilized Salt Rejection (%)
	Gals/Day	Liters/Day		
BME2521SL	450 ¹	1700	98	99
BME4040SXL	2000 ²	7570	98	99

¹Production rate @ feed water of 2000mg/l NaCl, 25°C, system pressure @ 150 psi, 15 % recovery, pH 7-8. Permeate flow may vary +/- 15%.

²Production rate @ feed water of 500mg/l NaCl, 25°C, system pressure @ 100 psi, 15 % recovery, pH 7-8. Permeate flow may vary - 15% +25%.

C. RECOMMENDED FEED WATER PRETREATMENT SPECIFICATIONS:

TDS: < 2000 TDS
HARDNESS: < 6 grains/gal. (103 mg/l)
TOTAL IRON: < .05 ppm
TANNIN: < .5 ppm
CHLORINE: < .1 ppm maximum
pH: 2.0 - 11.0
ORGANIC/MICROBIOLOGICAL ACTIVITY: 0
MANGANESE: <.05 ppm
HYDROGEN SULPHIDE: 0
TURBIDITY: < 1 NTU
SILT DENSITY INDEX: < 4.0

D. OPERATING AND STORAGE AND WARRANTY INFORMATION

1. Elements must be kept sealed and moist when in storage. Drying out will irreversibly damage the membranes.
2. Prevent elements from freezing, or being exposed to direct sunlight.
3. Elements are shipped in sealed bags and contain a preservative solution of 1-2% (by weight) of sodium metabisulphite (food grade).
4. Discard permeate from the first hour of operation.
5. Membrane Elements for residential systems have a one year warranty from the date of shipment. Warranty is void for membrane elements fouled by suspended solids, precipitates or biological growth. Membrane warranty is also void if the membrane elements are improperly used, poorly maintained or improperly stored.
6. Do not operate L/XL elements at pressures that result in higher than rated output. Premature membrane fouling and elevated product TDS will result.