

Bauer International Corporation TFMRO series water treatment systems are designed cost-effectively for commercial and industrial applications. This series come with various capacities that scale from 40,000 to 180,000 GPD (gallon per day) @ a maximum feed TDS of 2,000 or 5,000 ppm at 77°F (25h°C) recovery rate up to 75%.



### STANDARD FEATURES

#### MAIN ITEMS

- ◆ TFC Spiral wound membranes, 8" Dia x 40" long
- ◆ FRP membrane housing
- ◆ Stainless steel multi-stage pump with TEFC motor
- ◆ 5 micron cartridge prefilter
- ◆ Epoxy painted steel frame
- ◆ Power supply: 460/3ph/60Hz

#### ELECTRICAL

- ◆ PLC based control panel featuring:
  - Programmable time delay and set points
  - Status amber/green lamps
  - Alarms red lamps
  - Non-metallic Nema 4x enclosure
  - 110V/60Hz Control voltage
- ◆ Motor starter featuring Metallic Nema 12 enclosure with disconnect and interlocking rotary handle

#### AVAILABLE OPTIONS

- ◆ 380-415V/3ph/50Hz power supply, 220V control panel
- ◆ 230V/3ph/60Hz power supply
- ◆ Product tank level controller switch (low & high)
- ◆ Feed pH controller/ sensor
- ◆ Feed TDS/conductivity sensor with % rejection
- ◆ Membrane cleaning unit
- ◆ Automatic hourly flush
- ◆ Feed/permeate blending
- ◆ Export crating
- ◆ Custom designed units

#### INSTRUMENTATION

- ◆ Low pressure switch
- ◆ High pressure switch
- ◆ Liquid filled pressure gauges, 2 1/2" dial size, panel mount for pump suction, membrane feed, inter-stage and final concentrate pressures
- ◆ Permeate TDS/conductivity (temp. compensated) monitor panel mounted with programmable set points for high alarms.
- ◆ Permeate & concentrate flow monitors/sensors

#### OPERATION SPECIFICATIONS

- ◆ Maximum feed water temperature of 95°F
- ◆ Feed water pressure 20-80 psi
- ◆ pH range: 3-11
- ◆ Silica tolerance = 10 ppm max. @ 75% recovery
- ◆ Feed water SDI: less than 5
- ◆ Turbidity, iron, H<sub>2</sub>S<sup>-</sup> nil
- ◆ Feed hardness less than 10 gpd
- ◆ Feed water up to TDS 2,000 ppm with Membrane AK will produce water less than 200 ppm
- ◆ Feed water up to TDS 2,000 ppm with Membrane AG will produce water less than 60 ppm
- ◆ Feed water up to TDS 5,000 ppm with Membrane AK will produce water less than 500 ppm
- ◆ Feed water up to TDS 5,000 ppm with Membrane AG will produce water less than 150 ppm

# Technology and Experience Bring Satisfaction

## Brackish Water Reverse Osmosis Systems Commercial / Industrial Reverse Osmosis Systems

### OPERATION SPECIFICATION:

Maximum feed water temperature of 95°F  
 Feed water pressure 20-80 psi  
 pH range: 3-11  
 Silica tolerance = 10ppm max. @ 75% recovery  
 Feed water SDI: less than 5  
 Turbidity, iron, H<sub>2</sub>S- nil  
 Feed hardness less than 10 gpg

Feed water up to TDS 3,000 ppm will produce water less than 200 ppm  
 Feed water up to TDS 5,000 ppm will produce water less than 350 ppm

Model #	Max. Capacity		Membranes		At 3000 PPM Motor HP		At 5000PPM Motor HP		Dimensions	Approx. Wt.
	GPD	M <sup>3</sup> /day	Array	Qty	60 Hz	50 Hz	60 Hz	50 Hz	L"xW" xH"	Lbs
<b>TFM-1480</b>	28,800	109	1	4	10	10	15	20	160x33x58	2,300
<b>TFM-1580</b>	36,000	136	1	5	10	10	15	20	211x33x58	2,350
<b>TFM-1680</b>	43,200	164	1	6	10	10	15	20	236x36x58	2,400
<b>TFM-2480</b>	57,600	218	1:1	8	15	15	25	20	160x36x58	2,500
<b>TFM-2580</b>	72,000	273	1:1	10	20	20	25	20	216x36x58	2,600
<b>TFM-3480</b>	86,400	327	2:1	12	20	25	40	30	160x48x66	2,700
<b>TFM-3580</b>	108,000	409	2:1	15	25	25	40	40	216x48x66	3,200
<b>TFM-3680</b>	129,600	491	2:1	18	30	25	40	40	236x62x66	3,500
<b>TFM-4580</b>	144,000	545	2:2	20	30	30	40	50	236x62x66	4,200
<b>TFM-4680</b>	172,800	654	3:1	24	30	40	40	50	236x62x66	4,800

Recovery rates determined by the feed water supply and by the pre-treatment used for the system.

Please specify the feed TDS with a suffix "-3" for 3000 ppm or "-5" for 5000 ppm at the end of the model number.



### BAUER INTERNATIONAL CORPORATION WATER AND WASTEWATER TREATMENT SYSTEMS

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