

# BIC R.O. Systems

Reverse Osmosis Water Purification Systems

**TFK**  
Series

## INTRODUCTION

The BIC TFK series is available with capacities ranging from 225,000 to 500,000 GPD (gallon per day) @ a maximum TDS of 2000 or 5000 ppm at 77°F ( 25 °C) with recovery rates up to 75%. These units are economically



## 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: 460V/3 Ph/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

### INSTRUMENTATION

- High pressure switch
- Low pressure switch
- Liquid filled pressure gauges, 2½" 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

## AVAILABLE OPTIONS

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



**BIC Water and Wastewater Treatment**

# BIC R.O. Systems

Commercial / Industrial Reverse Osmosis Systems

**TFK**  
Series

## 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, H2S- nil
- Feed hardness less than 10 gpg
- Feed water up to TDS 2000 ppm with Membrane AK will produce water less than 200 ppm
- Feed water up to TDS 2000 ppm with Membrane AG will produce water less than 60 ppm
- Feed water up to TDS 5000 ppm with Membrane AK will produce water less than 500 ppm
- Feed water up to TDS 5000 ppm with Membrane AG will produce water less than 150 ppm

Model #	Capacity		Membranes		1000ppm Motor HP		3000 ppm Motor HP		5000 ppm Motor HP		Dimensions (inches)	Approx. Wt.
	GPD	m <sup>3</sup> /D	Array	Qty	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	LxWxH	Lbs
<b>TFK-5680</b>	225,000	852	3:2	30	40	40	50	50	2x30	2x40	350x72x80	4,500
<b>TFK-6680</b>	270,000	1,022	4:2	36	50	50	50	2x40	2x40	2x50	350x72x80	4,900
<b>TFK-7680</b>	320,000	1,211	5:2	42	50	50	2x30	2x40	2x40	2x50	350x72x90	5,200
<b>TFK-8680</b>	360,000	1,363	5:3	48	2x30	2x40	2x40	2x50	2x50	2x50	350x72x90	5,750
<b>TFK-9680</b>	410,000	1,552	6:3	54	2x30	2x40	2x40	2x50	100	100	350x72x90	6,250
<b>TFK-10680</b>	450,000	1,703	7:3	60	2x40	2x40	2x50	2x50	100	125	350x72x90	7,500
<b>TFK-11680</b>	500,000	1,893	8:3	66	2x40	2x50	2x50	125	125	125	350x72x90	8,500

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

\*\* Please specify the feed TDS with a "1" for 1000ppm or "3" for 3000ppm or "5" for 5000ppm at the end of the model number

## Bauer International Corporation

1542 Edinger Avenue, Suite D, Tustin, CA 92780 U.S.A.

Tel:(714) 689-9055 Fax:(714) 689-9056

E-mail: sales@bauerusa-intl.com Website: www.bauerusa-intl.com