

Reverse Osmosis Systems

BIC
TFV

Capacities Ranging from 1,500 to 9,000 GPD

RO membranes represent the finest level of filtration available today. With high rejection levels (99.4%), these membranes reject more hardness, sodium, nitrates and undesired impurities and produce clean and pure permeate water.

EXCITING FEATURES OF THE TFV UNITS

60% RECOVERY: High recovery translates into more feed water recovered as pure RO permeate & less water wasted to the drain.

FLEXIBLE OPERATION: Concentrate and recycle valves are offered as a standard feature to allow changing the recovery & operating pressure for varying feed water quality.

EXPANDABLE DESIGN: In most cases, to expand the product capacity, the unique TFV design lets you add more membranes. It's that simple!

SPACE SAVING: TFV units need minimal space requirement because of their unique vertical arrangement and compact system design.

QUIET PERFORMANCE: TFV's quiet high pressure pumps are advantageous in installations requiring low noise levels.

QUALITY YOU CAN DEPEND ON: All TFV units are pre-tested and undergo a stringent quality assurance procedure prior to shipment.

MOST IMPORTANT... COMPETITIVE PRICING: With all these exciting standard features & compared to similar units available in the market, TFV units definitely will be the best deal you find.



STANDARD FEATURES

- TFC Spiral Wound Membrane
- PVC Membrane Housing
- 304 Stainless Steel Multi Stage Pump
- 5 Micron Sediment Pre-Filter
- Powder Coated Steel Frame
- High Pressure Gauge, Liquid Filled
- Product & Concentrate Flow Meters
- Brass Concentrate & Recycle Needle Valves
- Low Pressure Switch, NEMA 4
- Inlet Solenoid Valve
- High Pressure Nylon Tubing
- Liquid-Tight Wire Shrouding
- One Set of Operation & Maintenance Manual

ELECTRICAL CONTROL

- NEMA 4X Fiberglass Enclosure
- Off/On Switch
- 208/230V/1 Ph/60Hz Power Supply
- 25 Amp Power Relay
- Pump Start Time-delay
- Status & Alarm Lights

AVAILABLE OPTIONS

- Recycle Flow Meter
- Pre/ Post-Filter Pressure Gauges
- Stainless Steel Membrane Housing
- Stainless Steel Kit (Incl. Valves, Fittings, Pressure Gauge & Switch)
- Pretreatment Lockout
- Conductivity Digital Display
- pH Digital Display
- Tank Full Level Switch
- 316 Stainless Steel Pump
- Hour Meter
- 220V/1 Ph/50Hz Power Supply
- High Pressure Switch
- Automatic Flush
- PLC Controller
- Microprocessor Controller
- Export Wood Crating
- Custom Designed Unit
- Disassembled Unit Kit
- Recommended Spare Parts



BAUER INTERNATIONAL CORPORATION
WATER AND WASTEWATER TREATMENT SYSTEMS

Reverse Osmosis Systems

BIC
TFV

Technology And Experience bring Satisfaction

Commercial / Industrial Reverse Osmosis Systems



Model	Product		Recovery (%)	Membranes		Pump HP		Unit Specifications	
	GPD	M ³ /D		Size	Qty	60Hz	50Hz	Dimensions	Wt (lbs)
TFV-1500	1,500	5.7	60%	4" x 40"	1	2	2	27"x 62"x 29"	125
TFV-3000	3,000	11.4	60%	4" x 40"	2	2	2	27"x 62"x 29"	155
TFV-4500	4,500	17.0	60%	4" x 40"	3	2	2	27"x 62"x 29"	175
TFV-6000	6,000	22.7	60%	4" x 40"	4	2	3	27"x 62"x 29"	195
TFV-7500	7,500	28.4	60%	4" x 40"	5	3	3	27"x 62"x 29"	215
TFV-9000	9,000	34.1	60%	4" x 40"	6	3	3	27"x 62"x 29"	235

OPERATING SPECIFICATIONS

Feed Water Temperature: 85°F max.
Feed Water Pressure: 30-65 psi
Operating Pressure: 200 psi max.
Feed Water TDS: 1,000 ppm max.
pH Range: 5-8
Hardness over 1 gpg should be softened
Hydrogen Sulfide must be removed

Silica Tolerance: 25 ppm max. @ 60% recovery
Iron Tolerance: 0.05 ppm max.
Turbidity should be <3 NTU
Average Salt Rejection: 99.4% based on 2,000 ppm NaCl solution at 225 psig pressure, 77°F, 7.5 pH & 15% recovery
Units can handle higher TDS levels by lowering the



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