



Description



TVC-1200
COMPACT VERTICAL SYSTEM

| | TVC-400 | TVC-800 | TVC-1200 |
|---------------------------------------|--|---------|----------|
| Frame | Welded stainless steel tube | | |
| Membranes | Low energy, thin-film (high rejection option) | | |
| Vessels | PVC (SS option) | | |
| Pump | Brass Positive Displacement (SS option) | | |
| Gauges | Filter inlet/outlet, Vessel inlet, SS case, bronze internals (SS option), glycerine filled | | |
| Valves | Recirculation control valve | | |
| Switches | Low feed pressure cut-out and tank pressure | | |
| Filters | 20" sed. and 20" Carbon block prefilters w/housings | | |
| Electrical* | 110/220V 50/60Hz 1-phase | | |
| Connections Feed/Drain/Product | 1/2" QC/3/8" QC/1/2" QC | | |
| Control System | Microprocessor controller | | |
| Standard Panel Instruments | TDS Monitor, Recirculation and Product Flowmeters | | |

*System production rate at 50 Hz power will be reduced by approximately 20%

Specifications

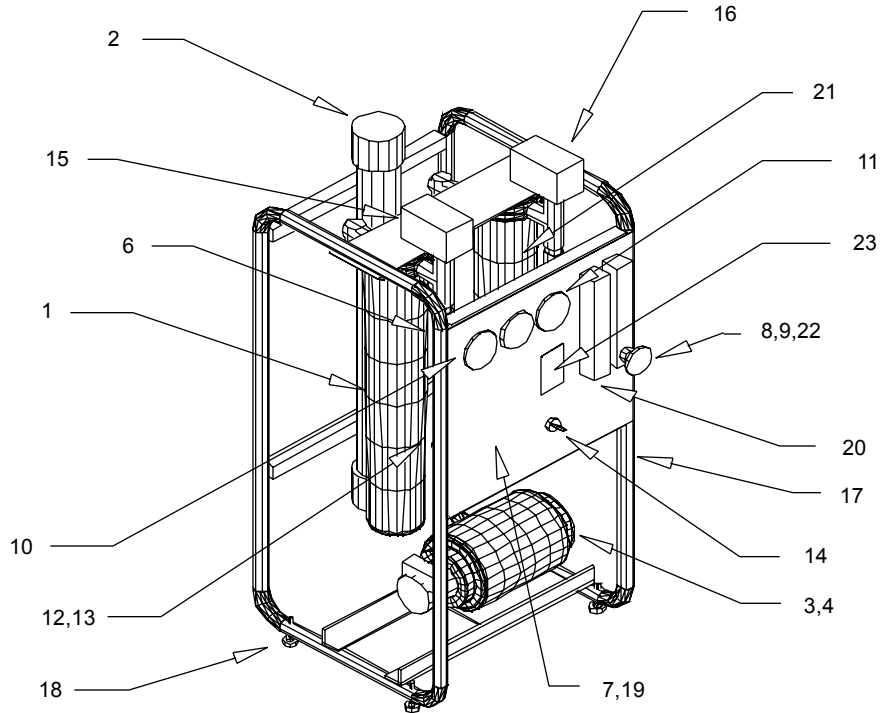
| | TVC-400 | TVC-800 | TVC-1200 |
|---|---|-----------------------------------|------------------------------------|
| Capacity | 400 GPD (1.5m ³ /d) | 800 GPD (3.0m ³ /d) | 1200 GPD (4.5m ³ /d) |
| Membranes | 1 | 1 | 1 |
| Nominal/Maximum Operating Pressure | 150/200 psi (10.3/13.8 bar) | | |
| Min. Conc. Flow - Discharge + Recirc | 0.35 GPM | 0.7-0.9 GPM | |
| Nominal Recovery | 50-70% | | |
| Typical TDS Rejection | 98% | | |
| Max Feed Temp | 113°F (45°C) | | |
| Feed pH | 3-10 | | |
| Feed Chlorination | External Dechlorination reqd. if >1.0 ppm | | |
| Maximum Feed TDS | 2,500 ppm | | |
| Motor Rating | 0.75 HP ODP Carbonator Type | | |

System Options

Product Storage Tanks • Tank Level Controls
Repressurization system • Automatic Flush • Pre/Post Treatment



TVC-400, -800 and -1200



System Diagram

- | | |
|-----------------------------|----------------------------|
| 1. Sediment Prefilter | 12. Electric Junction Box |
| 2. Pressure Vessel Assembly | 13. Pressure Relief Switch |
| 3. Pump | 14. Main Power Switch |
| 4. Motor | 15. Low Pressure Switch |
| 5. N/A | 16. Tank Pressure Switch |
| 6. Solenoid Valve | 17. SS Frame |
| 7. Monitoring Panel | 18. Levelling Feet |
| 8. Brine Flow Restrictor | 19. Control Panel |
| 9. Conc. Recirc. Valve | 20. Product Flow Meter |
| 10. Prefilter In/Out Gauges | 21. Carbon Block Prefilter |
| 11. Vessel In Gauge | 22. Recirc. Flow Meter |
| | 23. TDS Monitor |

TVC-400 has 2521 Pressure Vessel, TVC-800 & 1200 have 4021 Pressure Vessel.

TVC Series

System Information

| | TVC-400 | TVC-800 | TVC-1200 |
|---------------------------|---|------------------|------------------|
| Weight lbs. (kg) (Dry) | 67 lbs. (31 kg) | 75 lbs. (34 kg) | 80 lbs. (36 kg) |
| Dimensions | 17"W x 16.5"D x 34"H (43 x 42 x 86 cm) | | |

Dimensions and weight are for the system only. Systems are shipped in a cardboard container. A wood shipping crate is available for an additional charge.