

COMMERCIAL RO

Commercial or Light Industrial Applications

The **VESTA® VRO 440 Commercial Series** of Reverse Osmosis Systems are custom built to your specifications. These commercial systems of unmatched value in quality and price give you a multitude of standard features that are optional on most other ROs! NSF-grade high quality parts are used to build this tough system.

The **VRO 440 Series** is designed for Commercial or Light Industrial applications requiring flow rates of 0.17-6.9 gallons per minute (GPM). The VRO 440 Series features the durability of a powder coated steel frame, an optional complete performance monitoring package, and simple system integration.



Easy Motor Mount Bracket



Multi Stage Booster Pumps



Permeate & Concentrate Flow Meters



Optional - Control Box w/Low Pressure, Permeate TDS & Level Controls



Gloss 300 psi FRP Housings, Stainless Available at No Additional Cost



Liquid Filled Panel Mounted Concentrate Pressure Gauge

System Features & Options

System Features Include:

- **Carbon Steel Frame** for Strength & Rigidity
- **Powder Coated Frame** for Long Life & Durability
- **Extended Frame Legs** with Plastic End Caps for Protection from Ground Contact and Ease of Movement
- **Replaceable Motor Mounting System** - makes field repairs easy, bracket mounts to motor and slides over frame
- **True Union Couplings** on Inlet & Outlet of Motor. No Plumbing Disassembly Required for Change Out
- **Stainless Braided Hoses** for Protection Against Corrosion, Leaks & Fraying
- **Replaceable Schedule 80 PVC Fittings** for Ease of Field Repairs
- **Quick Connect Fittings** on Gauges & Recycle Operation for Ease of Service
- **Brass or Stainless Steel Inlet Shut Off Valve**
- **High Flow TFC Low Pressure Membranes** - Additional Element Types & Ratings Available
- **High Quality Gloss 300 psi FRP Housings** - Stainless Housings Available at No Additional Cost
- **Integrated Recycle Valve**
- **Low Pressure Mechanical Switch** w/Time Delay Snubber Valve
- **Permeate & Concentrate Flow Meters**
- **Liquid Filled Gauges** for Accurate & Steady Pressure Readings
- **Panel Mounted Concentrate Pressure Gauge**
- **Multi-Stage High Pressure Centrifugal Pump** for Lasting Performance
- **Pump Throttle Valve** & Pipe Mounted Discharge Pressure Gauge
- **Float Switch & Pretreatment Interlocks** - Standard on all Systems
- **High Flow 5 Micron Front Mounted Prefilter** for Ease of Service

Optional VRO Series Upgrades:

- **Digital Display Electronic Control Box** with Permeate TDS Display, Low Pressure Auto Reset
- **Upgrade Control Box** for Interval Fast Flush
- **Upgrade Control Box** for Permeate Flush
- **Custom Operational Programs** At No Cost
- **Second TDS Function** for Feed Water
- **Additional Panel Mounted Gauges** Customer Specified
- **Pre & Post Filter Gauges**
- **Manual Auto Flush Valve**
- **Interstage Gauges**
- **Bladder Tank Control** Available to Provide Pressurized Storage
- **Wall Mount Frame**



Your VESTA Professional Water Treatment Dealer has years of technical experience and service expertise ready to help optimize the performance of your system!

Vesta® Commercial Reverse Osmosis System Specifications

| Model: | VRO-1440-1600 | VRO-2440-3200 | VRO-3440-4800 | VRO-4440-6400 | VRO-5440-8000 | VRO-6440-10000 |
|----------------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Production GPD *** | 1600 | 3200 | 4800 | 6400 | 8000 | 10,000 |
| Membrane | 4 X 40 (1) | 4 X 40 (2) | 4 X 40 (3) | 4 X 40 (4) | 4 X 40 (5) | 4 X 40 (6) |
| Permeate GPM | 1.11 | 2.2 | 3.3 | 4.5 | 5.7 | 6.9 |
| Feed GPM ** | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 |
| % Recovery w/Recycle | 19%-30% | 50%-75% | 50%-75% | 50%-75% | 50%-75% | 50%-75% |
| Pump | 1 HP | 1 HP | 1.5 HP | 1.5 HP | 3 HP | 3 HP |
| FLA 60HZ 1Ø 220 | 19.2/9.6 | 19.2/9.6 | */12 | */12 | */15 | */15 |
| Circuit Size | 20/15A | 20/15A | 15A | 15A | 20A | 20A |
| Inlet | 3/4" | 3/4" | 3/4" | 3/4" | 1" Big Blue® | 1" Big Blue® |
| Permeate | 1/2" | 1/2" | 1/2" | 1/2" | 1" | 1" |
| Concentrate | 1/2" | 1/2" | 1/2" | 1/2" | 1" | 1" |
| Unit Dims (DxWxH) | 27¼"x25"x54¾" | 27¼"x25"x54¾" | 27¼"x25"x54¾" | 27¼"x25"x54¾" | 32½"x25"x56½" | 32½"x25"x56½" |
| Shipping Dims | 34"x34½"x58½" | 34"x34½"x58½" | 34"x34½"x58½" | 34"x34½"x58½" | 34"x34½"x58½" | 34"x34½"x58½" |
| Weight - Pounds | 124 lbs. | 149 lbs. | 158 lbs. | 169 lbs. | 211 lbs. | 224 lbs. |

*110 Volt Not Available **Minimum pressure of 20psi ***The stated product performance is based on data taken after 30 minutes of operation at the following test conditions: 2,000 mg/L NaCl solution at 225 psig (1.5 MPa) applied pressure, 15% recovery, 77°F (25°C), pH 6.5-7.0

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Part # VRO-440-LIT