

# COMMERCIAL RO

Commercial or Light Industrial Applications

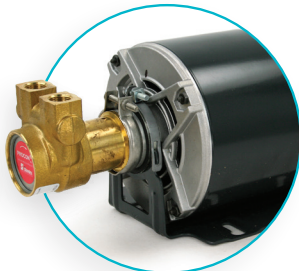
The **VESTA® VRO 2540 Commercial Series** of Reverse Osmosis Systems are custom built to your specifications. These commercial systems of unmatched value in quality and price give you a multitude of standard features that are optional on most other ROs! NSF-grade high quality parts are used to build this tough system.

The **VRO 2540 Series** is designed for Commercial or Light Industrial applications requiring flow rates of 900 - 1800 gallons per day (GPD). The **VRO 2540 Series** features the durability of a powder coated steel frame, stainless steel pressure vessels, liquid filled panel mounted pressure gauges, and a rotary vane pump with a mounting bracket system that is easily removed for maintenance by one person.

The **VRO 2540 Series** features AXEON® XE1 high performance membrane elements that operate at a low applied pressure of only 100 psi.



Easy Motor Mount Bracket



Standard Procon Rotary Vane Pumps



Optional Multi Stage Booster Pump



Permeate & Concentrate Flow Meters



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



300 psi Stainless Steel Pressure Vessels



Liquid Filled Panel Mounted Concentrate Pressure Gauge

VESTA® Commercial VRO 2540 Series Systems

**VESTA**®  
WATER SOLUTIONS  
COMMERCIAL

# System Features & Options

## Additional 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
- **Quick Connect Fittings** on Rotary Vane Pumps
- Replaceable Quick Connect 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**
- **AXEON® XE1 Membrane Elements** - offer enhanced performance by operating at a low applied pressure of 100 psi
- **High Quality Stainless Steel Membrane Housings**
- **Integrated Recycle Valve**
- **Low Pressure Mechanical Switch** w/Time Delay Snubber Valve
- **Permeate and Concentrate Flow Meters**
- **Liquid Filled Gauges** for Accurate & Steady Pressure Readings
- **Panel Mounted Concentrate Pressure Gauge**
- **Optional Stainless Steel High Pressure Centrifugal Pump** for Lasting Performance (1400 gpd only)
- **Pump Throttle Valve** & Pipe Mounted Discharge Pressure Gauge for Multi-Stage Booster Pumps
- **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 Flush Valve**
- **Interstage Gauges**
- **Bladder Tank Control** Available to Provide Pressurized Storage
- **Wall Mount Frame**



VRO-22540-1400-WM  
(Shown with optional upgrades)

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 Type	Floor Stand	Floor Stand	Wall Mount	Wall Mount
<b>Model Number:</b>	VRO-12540-900	VRO-22540-1800	VRO-12540-900-WM	VRO-22540-1800-WM
<b>Production GPD**</b>	900	1800	900	1800
<b>Membrane</b>	2-1/2" x 40" (1)	2-1/2" x 40" (2)	2-1/2" x 40" (1)	2-1/2" x 40" (2)
<b>Permeate GPM*</b>	.62 GPM	1.25 GPM	.62 GPM	1.25 GPM
<b>Feed GPM</b>	1.7	3	1.7	3
<b>% Recovery w/Recycle</b>	19-40%	30-60%	19-40%	30-60%
<b>Pump</b>	1/2 HP	3/4 HP	1/2 HP	3/4 HP
<b>FLA 60HZ 1Ø 110/220</b>	7.1/3.4	10/5.0	7.1/3.4	10/5.0
<b>Circuit Size</b>	20/10A	20/10A	20/10A	20/10A
<b>Solenoid Voltage</b>	110v	110v	110v	110v
<b>Inlet</b>	3/4"	3/4"	3/4"	3/4"
<b>Permeate</b>	3/8"	3/8"	3/8"	3/8"
<b>Concentrate</b>	3/8"	3/8"	3/8"	3/8"
<b>Unit Dims (DxWxH)</b>	27 1/4"x24"x54 3/4"	27 1/4"x24"x54 3/4"	16 1/4"x32 3/4"x47 1/4"	16 1/4"x32 3/4"x47 1/4"
<b>Shipping Dims (DxWxH)</b>	34"x25 1/2"x58"	34"x25 1/2"x58"	48"x40 3/4"x29 1/4"	48"x40 3/4"x29 1/4"
<b>Weight - Pounds</b>	104 lbs.	118 lbs.	106 lbs.	120 lbs.

\*Minimum pressure of 35PSI \*\*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 150 psig (1.5 MPa) applied pressure, 15% recovery, 77° F (25° C), pH 6.5-7.0