



EPRO™ Commercial Reverse Osmosis (RO) Systems

EPRO™ Commercial Systems are designed to maximize water purification efficiency. Available models offer a choice of flow rates and configurations for removal of dissolved solids and other impurities from tap water or brackish water. Purified high-quality water is supplied to your application at existing point of use.

Typical Applications

- Carwash rinse water (for spot-free shine)
- Laundries and cleaners
- Food and beverage production, bottling
- Pharmaceutical production/laboratories
- Paint and assembly
- Electronics fabrication
- Boiler & cooling tower makeup water
- Misting, humidification
- Nurseries, greenhouses

Features

- Built for reliability and durability, the EPRO systems are equipped with efficient, high quality pumps, motors, and membranes for **energy savings and low maintenance**
- Up to **99.4% purification rate**² provides clean water and improved wash/rinse characteristics, reducing service cost of equipment and appliances by removing harmful chemicals and minerals
- Up to **80% recovery rates**³ minimize water waste
- Complete RO system shipped preassembled to enable **fast installation**, limiting start-up costs and space requirements



EPRO 21500



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Technical Specifications (Standard on EPRO Commercial RO Systems)

- **Product flow rate:** from 11,500 to 24,500 GPD¹ (43.5-92.7 m³/day.)
- **Rejection rate:** up to 99.4%²
- **Recovery rate:** up to 80%³
- Configurable to match specified rejection rate and other clean water characteristics
- Carbon steel frame
- Multifunction electronic control unit
- Automatic feed water shutoff
- Stainless steel centrifugal pump
- Permeate, concentrate, and recycle flow meters
- Liquid-filled pressure gauges
- 5 micron sediment pre-filter
- Fiberglass reinforced plastic pressure vessels
- Concentrate and recycle control valves
- 230/460 V 3-phase TEFC 60 Hz motor

Dimensions (Fully Assembled)

- W x D x H: 37"x64"x68.5" (94cm x 163cm x 174cm)

Warranty

- One year limited manufacturer's warranty on parts & labor

Options

- Service maintenance contract
- Auto flush (feed or permeate)
- pH monitor/controller
- Chemical dosing
- Digital TDS monitor
- Coldwater and high-efficiency membranes
- 230/460 V 3-phase TEFC 50 Hz motor
- Other options are available – please consult your local **COCHRANE** Representative

EPRO COMMERCIAL Specifications

System	Flow Rate (GPD / m ³ / day)	Max. Operating Pressure (PSI / kPa)	Inlet Size (inches)	Membrane Dimensions / Quantity	Nominal Recovery (without recycle)	Motor Horsepower
EPRO 11500	11,500 / 43.5	200 / 1480	1.5"	4" x 40" / 7	40%	5
EPRO 13000	13,000 / 49.2	200 / 1480	1.5"	4" x 40" / 8	45%	5
EPRO 14500	14,500 / 54.9	200 / 1480	1.5"	4" x 40" / 9	50%	5
EPRO 16000	16,000 / 60.6	200 / 1480	1.5"	4" x 40" / 10	50%	5
EPRO 17500	17,500 / 66.2	200 / 1480	1.5"	4" x 40" / 11	50%	5
EPRO 19000	19,000 / 71.9	200 / 1480	1.5"	4" x 40" / 12	50%	7.5
EPRO 20500	20,500 / 77.6	200 / 1480	1.5"	4" x 40" / 13	50%	7.5
EPRO 21500	21,500 / 81.4	200 / 1480	1.5"	4" x 40" / 14	50%	7.5
EPRO 23000	23,000 / 87.1	200 / 1480	1.5"	4" x 40" / 15	70%	7.5
EPRO 24500	24,500 / 92.7	200 / 1480	1.5"	4" x 40" / 16	70%	7.5

Important

Specifications are subject to change without notice. Systems shown with options. Contact your **COCHRANE** Representative for the latest options and specifications. Stated rates are based on 60Hz application and feed water TDS of 500 PPM at 77° F (25° C). While all EPRO systems are equipped with an integral pre-filter, a separate and properly sized multimedia filter (or equivalent pre-treatment equipment) should be used to protect the RO pump and membranes from coarse particles. Please ask your local representative about the selection of appropriate pre-treatment equipment.

¹ Varies with size of system.

² Based on membrane manufacturer's specifications. Actual purification rates will vary with system configuration and feed/ source water quality.

³ Recovery rates will vary with system configuration and feed/source water quality. Systems without waste water recycling will have lower recovery rates. Water should be tested before consumption.



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