The Reference Standard in Reverse Osmosis

Commercial & Residential RO Systems

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EPRO™ Commercial Reverse Osmosis (RO) Systems

EPRO™ COMMERCIAL RO 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.

- 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

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
- Commercial printing
- Commercial property water supply

Technical Specifications (Standard on Epro Commercial RO Systems)

- **Product flow rate:** from 11,500 to 24,500 GPD[1] (43.5-92.7 m^3/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 **newterra** 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 **newterra** 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.

EPRO™ Reverse Osmosis (RO) Systems for Residential and Commercial Applications

EPRO™ systems are designed to maximize water purification efficiency. Available models offer a choice of flow rates and configurations for removal of impurities such as bacteria and dissolved solids from tap water or brackish water. Purified high-quality water is supplied through existing taps (faucets) for use in residences and commercial applications.

- Complete RO systems 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
- Compact, preassembled design enables **installation in under 2 hours**, limiting start-up costs and space requirements

EPRO 8000

Applications

- Purification of home water supply
- 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
- Commercial printing

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Technical Specifications (Standard on EPRO Systems)

- **Product flow rate:** from 600 to 10,000 GPD[1] (2.3-37.9 m^3/day.)
- **Purification rate:** up to 99.4%[2]
- **Recovery rate:** up to 80%[3]
- **Automatic feed water valve shutoff**
- Stainless steel centrifugal pump
- Flow meters for product and discarded water
- Liquid-filled pressure gauges
- 5 micron sediment pre-filter
- Fiberglass reinforced plastic or Stainless Steel pressure vessels
- Concentrate control valve
- 110 V or 220 V single phase 60 Hz motor

Dimensions

- W x D x H: 26"x20"x53" (66cm x 51cm x 135cm)

Warranty

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

Options

- Auto flush
- Electronic control with low flow switch
- Digital TDS monitor
- Recycle flow meter and valve
- Coldwater and high-efficiency membranes
- 208-230/480 V 3-phase 60 Hz motor
- Other options are available – please consult your local **newterra** representative

EPRO 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 600	600 / 2.3	180 / 1342	1/2"	2.5" x 40" / 1	25%	1/3
EPRO 1200	1200 / 4.5	180 / 1342	1/2"	2.5" x 40" / 2	40%	1/2
EPRO 1500	1500 / 5.7	180 / 1342	3/4"	4" x 40" / 1	25%	1
EPRO 3000	3000 / 11.4	180 / 1342	3/4"	4" x 40" / 2	40%	1
EPRO 4500	4500 / 17	180 / 1342	3/4"	4" x 40" / 3	40%	1.5
EPRO 6000	6000 / 22.7	180 / 1342	3/4"	4" x 40" / 4	50%	1.5
EPRO 8000	8000 / 30.3	180 / 1342	1"	4" x 40" / 5	50%	3
EPRO 10000	10000 / 37.9	180 / 1342	1"	4" x 40" / 6	60%	3

Important

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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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EPRO™ SW – Reverse Osmosis (RO) Systems for Residential and Commercial Applications

EPRO™ SW systems are designed to maximize water purification efficiency and produce high-quality clean water from tap water, brackish water, and **seawater**. After removing impurities such as salts, bacteria, and dissolved solids, clean water is supplied through existing taps (faucets) for use in residences and commercial applications.

- Complete RO systems with efficient, high quality pumps, motors, and membranes for **energy savings and low maintenance**
- Up to **99.8%** 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 **45% recovery** rates[3] minimize water waste
- Compact, preassembled design enables **installation in under 2 hours**, limiting start-up costs and space requirements

EPRO 6000SW

Applications

- Desalination and Purification of home, business, or commercial use water supply
- Laundries and cleaners
- Misting, humidification
- Nurseries, greenhouses

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Technical Specifications (Standard on EPRO SW Systems)

- **Product flow rate:** from 1000 to 6000 GPD[1] (3.8-22.7 m^3/day)
- **Purification rate:** up to 99.8%[2]
- **Recovery rate:** approx. 45%[3]
- **Pump:** Danfoss ultra-quiet 2205 duplex stainless steel
- **Other standard features:**
  - 2205 duplex stainless steel high-pressure piping
  - Automatic feed/source shutoff
  - Low pressure switch
  - High pressure relief safety valve
  - Product TDS meter
  - Liquid-filled pressure gauges
  - Permeate flush
  - 1 micron sediment pre-filter
  - 208-230/460 V 3 phase 60 Hz TEFC motor

Dimensions (Fully Assembled)

- W x D x H: 33"x34"x66" (84cm x 86cm x 168cm)

Warranty

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

Options

- Chemical dosing mechanism
- 208-230/460 V 3 phase 50 Hz TEFC motor
- Other options are available – please consult your local **newterra** representative

EPRO SW 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 1000SW	1000 / 3.8	900 / 6307	3/4"	4" x 40" / 1	14%	3
EPRO 2000SW	2000 / 7.6	900 / 6307	3/4"	4" x 40" / 2	24%	3
EPRO 3000SW	3000 / 11.4	900 / 6307	3/4"	4" x 40" / 3	32%	5
EPRO 4000SW	4000 / 15.1	900 / 6307	1"	4" x 40" / 4	38%	7.5
EPRO 5000SW	5000 / 18.9	900 / 6307	1"	4" x 40" / 5	42%	7.5
EPRO 6000SW	6000 / 22.7	900 / 6307	1"	4" x 40" / 6	45%	10

Important

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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.

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EPRO™ E – Reverse Osmosis (RO) Systems for Residential and Commercial Applications

EPRO™ E systems are designed to maximize water purification efficiency and produce high-quality clean water from tap water or brackish water. After removing impurities such as bacteria and dissolved solids, clean water is supplied through existing taps (faucets) for use in residences and commercial applications.

- Complete RO systems 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 **40% recovery** rates[3] minimize water waste
- Compact, preassembled design enables **installation in under 2 hours**, limiting start-up costs and space requirements

EPRO 3000E

Applications

- Purification of home water supply
- 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
- Commercial printing

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Technical Specifications (Standard on EPRO E Systems)

- **Product flow rate:** 1,200 to 3,000 GPD[1] (5.7 to 11.36 m^3/day)
- **Purification rate:** up to 99.4%[2]
- **Recovery rate:** up to 40%[3]
- Automatic feed/source water shutoff valve
- Liquid-filled pressure gauges
- Flow meters for product and discarded water
- 5 micron sediment pre-filter
- 110/220 V 1 phase 60 Hz TEFC motor

Dimensions (Fully Assembled)

- W x D x H: 24"x18"x55" (61cm x 46cm x 140cm)

Warranty

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

Options

- Coldwater membranes (when using cold water source)
- 110/220 V 1 phase 50Hz TEFC motor
- Other options are available – please consult your local **newterra** representative

EPRO E 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 1500E	1500 / 5.7	180 / 1342	3/4"	4" x 40" / 1	25%	1
EPRO 3000E	3000 / 11.4	180 / 1342	3/4"	4" x 40" / 2	40%	1

Important

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[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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About newterra

A Global Water Technology Leader

newterra is recognized as a leader in the development of sustainable treatment solutions for water, sewage, wastewater and groundwater remediation for industrial, municipal, land development, commercial & residential markets. Our heritage of innovation in providing clean water solutions dates all the way back to 1863. Over that time, **newterra** has grown to over 250 people and we've installed thousands of treatment systems – some of which operate in the most extreme conditions on the planet.

Full Control from Start to Finish

At **newterra**, we take full control of virtually every aspect of the treatment systems we build – from process design and engineering to manufacturing, installation, operation and ongoing parts & service support. That also includes manufacturing our own MicroClear™ UF membranes and EPRO™ Reverse Osmosis (RO) systems in **newterra** owned facilities. This award-winning approach ensures **newterra** treatment systems meet our high standards for quality and on-time delivery.

250+ Employees

40+ Professional Engineers

10,000+ Installations Worldwide

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