



# ComPro

## COMMERCIAL/INDUSTRIAL REVERSE OSMOSIS SYSTEM

675 to 2,025 GPD\*

The Pentair Industrial ComPro system is a world-class, light commercial reverse osmosis (RO) system designed to solve a variety of water problems. This high quality, energy efficient system is easy to install, set up and service. Choose from 3 models to fit your specific market or application needs.

### COMMERCIAL APPLICATIONS

- Whole building water loop, including water supply for bottleless water coolers
- Coffee, espresso, cappuccino, beverage, ice machines, post-mix and steamers
- Ingredient water
- Laboratory water systems
- Misting and humidification systems
- Commercial dishwashers
- Evaporative coolers
- Institutional water, schools, hospitals and healthcare facilities
- Car wash spot-free rinsing
- Horticulture, floriculture and greenhouses
- Drip irrigation
- Community water vending including marinas, recreational vehicle and mobile home parks

### INDUSTRIAL APPLICATIONS

- Small boiler feedwater
- Autoclave/steam generator supply water
- Metal plating/finishing
- Chemical makeup water
- Sustainable drinking water
- Spot-free product rinse water
- R&D lab use
- Ink/dye makeup water
- Process ingredient water
- Deionizer pre-treatment

### FEATURES

- Nominal salt rejection up to 98%
- Permeate flush at shutdown
- Proprietary quick connect, encapsulated, energy efficient, low pressure membranes
- High efficiency 1/2 HP Berkeley® stainless steel centrifugal pump
- Genuine PENTEK® prefilter housing with Pentair Industrial 10" Versaflex™ 5 micron pre-filter
- Automatic, low inlet pressure switch for pump cut-off with auto restart
- Inlet pre-filter, post-filter, membrane feed and final pressure gauges
- Blue-White® permeate and concentrate flow meters with integrated concentrate flow control
- Fixed recycle flow control minimizes tampering
- 30-50 psi (2.1-3.5 kg/cm<sup>2</sup>) [207-345 kPa] on / off switch on permeate
- Industrial grade solenoid valve
- 115V / 60 Hz or 230V / 50 Hz single phase pump

### CONTROL FEATURES

- 2 LED status indicators and backlit LCD show current status: Off, Run, Tank Full, Replace Fuse and Low Pressure Shut-Off
- Pentair-exclusive CULUS-, CE-listed controller assures quality and safety of electrical system and components
- Digital conductivity monitoring of feed and permeate water

### BENEFITS

- High TDS rejection with reduced water and electrical costs
- Longer membrane life, improved water quality after shutdown and better long-term performance with permeate flush
- Assured replacement business for future membranes
- Easy to service and capable of accepting additional membranes
- Berkeley® centrifugal pump lasts 8-12 times longer than rotary vane pump for lower operation and maintenance costs
- Constant 30-50 psi (2.1-3.5 kg/cm<sup>2</sup>) [207-345 kPa] pressure in system with appropriate storage system
- Automated control with auto restart alerts operator to status and operation steps
- Low inlet pressure shutoff protects pump
- 115 Volt / 60 Hz or 230 V / 50 Hz for easy installation and operation
- Integrated brackets make it easy to achieve a secure wall-mount installation
- Adaptable to a wide range of water conditions
- Built-in Versaflex filter reduces particulate breakthrough from pre-treatment bypass or failure
- Longer system life with high quality, long-lasting and high-purity components

# ComPro Commercial/Industrial Reverse Osmosis System

Model	ComPro-675 CMCPDLX1M	ComPro-1350 CMCPDLX2M	ComPro-2025 CMCPDLX3M
Part Number 115 VAC/60 Hz or 230 VAC/50 Hz	CM801011 / CM801014	CM801012 / CM801015	CM801013 / CM801016
Nominal Capacity GPD (m <sup>3</sup> /day) +/- 15%*	675 (2.55)	1350 (5.11)	2025 (7.66)
System Recovery	25-75%	25-75%	25-75%
Permeate Rate, gpm (m <sup>3</sup> /hr)	0.47 (.11)	0.94 (.21)	1.41 (.32)
Concentrate Rate, gpm (m <sup>3</sup> /hr)	1.41-0.47 (.33-.11)	2.82-0.94 (.63-.21)	4.23-1.41 (.96-.32)
Feed Water Rate, gpm (m <sup>3</sup> /hr)	1.88-0.94 (.44-.22)	3.76-1.88 (.84-.42)	5.64-2.82 (1.28-.64)
Feed Water Inlet Pressure - Min. psi (Kg/cm <sup>2</sup> ) [kPa]	50 psi (3.5) [345]	50 psi (3.5) [345]	50 psi (3.5) [345]
Feed Water Inlet Pressure - Max. (Kg/cm <sup>2</sup> ) [kPa]	100 psi (7.0) [689]	100 psi (7.0) [689]	100 psi (7.0) [689]
Membrane Feed Water Inlet Pressure - Max. (Kg/cm <sup>2</sup> ) [kPa]	125 psi (8.8) [862]	125 psi (8.8) [862]	125 psi (8.8) [862]
Standard Feed Water Temperature °F (°C)	35-104°F (2- 40 °C)	35-104°F (2- 40 °C)	35-104°F (2- 40 °C)
Permeate Flush on Shutdown	Yes	Yes	Yes
<b>Membranes</b>			
Membrane Size - Nominal Inches	ComPro Encapsulated	ComPro Encapsulated	ComPro Encapsulated
Membrane Quantity	1	2	3
Elements Array	1	2	3
Nominal Salt Rejection	95-98%	95-98%	95-98%
Vessel Material	PVC	PVC	PVC
<b>Piping</b>			
Inlet: Inches (mm)	1/2 (13) NPT	1/2 (13) NPT	1/2 (13) NPT
Permeate Outlet: Inches (mm)	1/2 (13) Tube	1/2 (13) Tube	1/2 (13) Tube
Concentrate Outlet: Inches (mm)	1/2 (13) Tube	1/2 (13) Tube	1/2 (13) Tube
<b>Pump</b>			
Pump Type	Centrifugal	Centrifugal	Centrifugal
Boost Pressure: psi (Kg/cm <sup>2</sup> ) [kPa]	10-25 (0.7-1.8) [69-172]	10-25 (0.7-1.8) [69-172]	10-25 (0.7-1.8) [69-172]
Pump Material	Stainless Steel	Stainless Steel	Stainless Steel
Horsepower (KW)	1/2 (0.37)	1/2 (0.37)	1/2 (0.37)
Voltage/ Hz - STD Single Phase	115V/ 60 Hz or 230/ 50 Hz	115V/ 60 Hz or 230/ 50 Hz	115V/ 60 Hz or 230/ 50 Hz
Amps 115V / 230 V	10 / 5	10 / 5	10 / 5
<b>Overall Dimensions</b>			
Height Inches (cm)	41 (105)	41 (105)	41 (105)
Width Inches (cm)	32 (82)	32 (82)	32 (82)
Depth Inches (cm)	12 (31)	12 (31)	12 (31)
Weight of System wo/water lbs (Kg)	125 (56.8)	136 (61.8)	147 (66.8)
<b>Prefilter Dimensions</b>			
Filter Housing Cartridge Quantity & Size Inches	1 x 2.9" x 9.8"	1 x 2.9" x 9.8"	1 x 2.9" x 9.8"
Replacement Filter	5 Micron CMVersaFlex	5 Micron CMVersaFlex	5 Micron CMVersaFlex
<b>Standard Water Quality</b>			
Softened Water	<1 grain/gallon	<1 grain/gallon	<1 grain/gallon
Silt Density Index (SDI)	SDI < 3	SDI < 3	SDI < 3
Total Dissolved Solids (TDS)	TDS < 2000	TDS < 2000	TDS < 2000
Silica ppm	SiO <sub>2</sub> < 20	SiO <sub>2</sub> < 20	SiO <sub>2</sub> < 20
Turbidity NTU	Turbidity < 1.0	Turbidity < 1.0	Turbidity < 1.0
pH	pH = 3 to 10	pH = 3 to 10	pH = 3 to 10
Iron & Manganese ppm	< 0.01	< 0.01	< 0.01
Chlorine/ Chloramine - Maximum (mg/l)	< 0.01	< 0.01	< 0.01
Chloride ppm	<350	<350	<350

\*Note: System performance and specifications based on feed water of 750 Mg/L NaCl at 77°F (25°C) at 75% recovery and 60 psi (4.2 Kg/cm<sup>2</sup>) [414 kPa] dynamic pressure to the inlet of the system.



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