

ANGEL



Performance You Can Trust.

Industrial/Agriculture Water Purification Systems

ADVANCED ENGINEERING. PROVEN PERFORMANCE.

Our commercial membranes combine premium-grade TFC sheeting with **ANGEL's** precision-engineered rolling process, delivering stable permeate flow, efficient water production, and long-term reliability. This advanced pairing of trusted material science and disciplined manufacturing creates a membrane built to perform day after day, even in challenging feedwater conditions. Each component is produced through a consistent, controlled process that reinforces durability, enhances efficiency, and ensures dependable performance where it counts most.

FEATURES

- Output: 4 Plug and Play systems ranging from **5,000, 10,000, 15,000, 20,000 GPD** of pure clean, grow-ready filtered water
- Membrane removes up to **98% of TDS**, contaminants, and impurities
- RO permeate lines built with **316 stainless steel**
- **Stainless steel** corrosion-resistant frame + compact footprint
- Pre-treatment equipment, accessories, and chemical injection points onboard
- User friendly advanced **9" touch screen SIEMENS** Interface for full system control

APPLICATIONS

- Agriculture, Greenhouses & Hydroponics
- Breweries & Beverage Production
- Wineries & Distilleries
- Cooling Towers
- Manufacturing & Industrial
- Hospitality & Commercial Facilities
- Healthcare & Laboratories
- Nurseries



CORE COMPONENTS

Dual GAC Media Tanks

Designed for operations that demand consistency. The dual-tank GAC configuration delivers premium water quality, reduces maintenance, and ensures your RO system performs at its peak, day in, day out.

RO Membranes

Driven by advanced high-pressure membrane technology, the RO stage removes bacteria, salts, and impurities — producing the clean, high-purity water your operation depends on.

High-Pressure Pumps

Primary Pump: Provides pressure for RO process.
Booster Pump: Maintains stable flow and pressure.

Chemical Dosing Tank

Automated dosing prevents scaling and algae, ensuring precise water quality for optimal growth.

Extra Chemical Injection Port

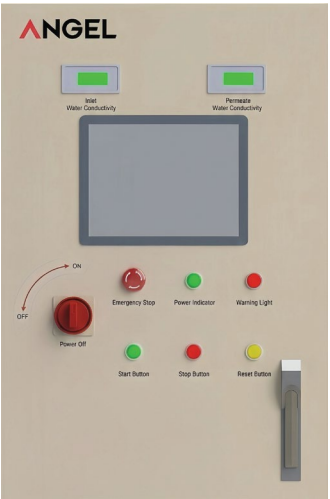
Built-in flexibility: an extra injection port lets you adapt treatment chemistry to any water source.



Sediment Filter

Security filter as the final barrier before RO, removing fine suspended solids.

Total RO Control powered by SIEMENS



Automatic Media Control

Managed backwash and rinse cycles with constant timing, stable flow, and dependable performance.



RO Controller

Our Commercial RO systems are powered by a modern 9" full-color **SIEMENS** touchscreen, delivering a refined, intuitive control experience designed for professional-grade operation. The high-resolution interface provides clear visibility of real-time system data, guided navigation, and intelligent alarm notifications, giving operators a smarter, more confident way to manage performance. This elevated control platform brings sophistication, reliability, and ease of use to every installation.

- 9" touchscreen with intuitive navigation
- Permeate TDS monitoring with alarm
- Low-pressure monitoring with automatic protection
- System status & performance monitoring
- Run-time tracking and pre-treatment lockout
- Auto-restart after low-pressure events
- High-pressure tank protection
- Permeate flush for extended membrane life
- Tank-level control input with float switch integration
- Chemical injection port with power connection



RO SYSTEM BENEFITS

- Engineered for flexibility and footprint efficiency
- Clear, accessible instrumentation for real-time system feedback and diagnostics
- Pre-wired, pre-plumbed, and pre-assembled to adapt to all growers needs
- Designed for fast servicing and minimal downtime
- Built for budget-conscious users, keeping maintenance simple and operating costs predictable
- Individually inspected, calibrated, and certified

ANGEL ENGINEERED FLEXIBILITY

Every **ANGEL** skid features dual GAC filtration for chlorine/chloramine reduction and offers the flexibility to substitute the first tank with Greensand for advanced iron, manganese, and sulfur treatment. Combined with a dedicated injection port for oxidation, the system delivers dependable, high-performance results on well water applications..

PLUG AND PLAY - BUILT FOR CITY AND WELL WATER

The **ANGEL** Commercial-Series turn-key skid is a fully integrated, ready-to-install water treatment system engineered for fast, professional deployment. Each skid includes the selected Commercial-Series unit along with matched pretreatment components, all pre-assembled, pre-plumbed, wired, and factory-tested for complete compatibility and performance assurance. Every system arrives as a clean, organized skid with all major piping, valves, controls, and accessories already installed. This dramatically reduces installation time, eliminates field-integration issues, and ensures a smooth start-up. The result is a dependable, high-performance solution that delivers consistent water quality with minimal on-site work and simplified long-term maintenance.



CHLORINE & CHLORAMINE PROTECTION

RO membranes are highly sensitive to chlorine and chloramines, which can cause rapid damage if not removed. That's why **ANGEL** recommends only using automatic backwashing, self-maintaining Granulated Activated Carbon (GAC) media filters. These filters provide reliable, high-capacity chemical reduction, ensuring your RO system is protected and delivering consistent, long-term performance.

AUTOMATED CHEMICAL INJECTION FOR HARDNESS & SCALE CONTROL

For effortless protection against hardness and lime scale, chemical injection systems deliver precise antiscalant dosing directly into the RO feedwater. This eliminates the burden of maintaining salt softeners, avoids usage restrictions, and ensures consistent scale-control performance, keeping your system running at optimal efficiency!



PRECISION PRESSURE. MAXIMUM EFFICIENCY. ZERO COMPROMISE.

ANGEL's VFD-driven multistage pump delivers stable membrane pressure, ultra-quiet performance, and energy-saving operation — engineered for reliable, high-purity RO production.



SPECIFICATIONS

Models	ROS5	ROS10	ROS15	ROS20
Water Flow	GPM: 3.5 GPH: 208 GPD: 5,000	GPM: 7 GPH: 416 GPD: 10,000	GPM: 10.5 GPH: 625 GPD: 15,000	GPM: 14 GPH: 833 GPD: 20,000
Piping Connection Size	Inlet			
	NPT 1"	NPT 1.2"	NPT 1.5"	NPT 1.5"
	Product Water Outlet			
	NPT 3/4"	NPT 3/4"	NPT 1.2"	NPT 1.2"
	Concentrate Water Outlet			
	NPT 1"	NPT 1"	NPT 1.2"	NPT 1.2"
Voltage	Three-phase, 240 V, 60Hz			
Power	5 hp	5.5 hp	6.8 hp	6.8 hp
Dimensions	75" x 39" x 80"	80" x 41" x 80"	96.5" x 42" x 80"	96.5" x 42" x 80"
Weight	1000 lb	1250 lb	1500 lb	1650 lb
Number of RO Membranes	3	6	10	12
System Recovery Rate	up to 80% 4:1*			
Temperature	Inlet Water Temperature: 41°F - 113°F Product Water Temperature: 41°F - 113°F			
System Pressure	Rated Operating Pressure: 115 psi - 175 psi Inlet Water Pressure: 15 psi - 58 psi			
Sterilization Method	UV (Optional)			

*Dependant on inlet water quality or chemistry.

REJECTION RATE

Contaminant	Rejection %	Contaminant	Rejection %
Aluminium	95–97%	Magnesium	92–97%
Ammonium	80–90%	Manganese	96–98%
Arsenic	94–96%	Mercury	94–97%
Bacteria	99+%	Nickel	96–98%
Bicarbonate	95+%	Nitrate	90–95%
Borate	30–50%	Orthophosphate	96–98%
Boron	50–70%	Phosphate	95–98%
Bromide	90–95%	Polyphosphate	96–98%
Cadmium	93–97%	Potassium	92–96%
Calcium	92–97%	Pyrogen	99+%
Chloride	92–95%	Radioactivity	92–96%
Chromate	85–95%	Radium	97%
Copper	96–98%	Selenium	97%
Cyanide	85–95%	Silica	80–90%
Detergents	97%	Silicate	92–95%
Ferrocyanide	98–99%	Silver	93–96%
Fluoride	92–95%	Sodium	92–98%
Hardness (Ca & Mg)	93–97%	Sulfate	96–98%
Herbicides	97%	Thiosulfate	96–98%
Insecticides	97%	Viruses	99+%
Iron	96–98%	Zinc	96–98%
Lead	95–98%		

*The above estimated percent rejections are for reference only. The above listings are for the most common impurities found in water, however the Standard ANGEL RO membranes may also remove other less common impurities found in water. Actual rejection will depend heavily on the exact chemistry, temperature, pressure, and TDS content of the feed water.



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