SKRO - Reverse Osmosis System Brochure

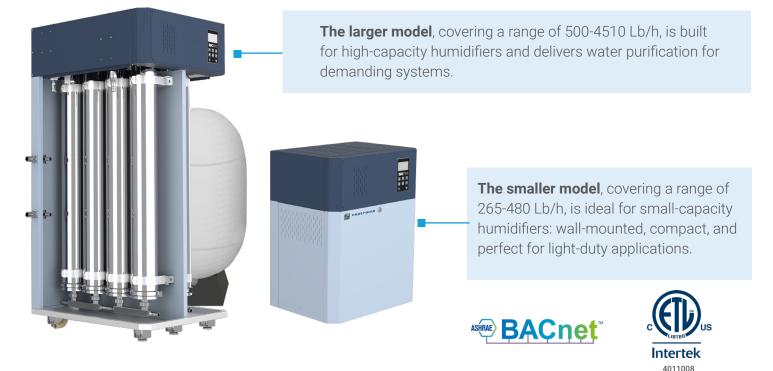




Optimize Humidification with RO filtration

The Neptronic SKRO is a scalable reverse osmosis water treatment system tailored for adiabetic and isothermal Neptronic humidifiers. It is designed to purify water for atomizing applications, and eliminate maintenance on electric, gas, and steam to steam humidifiers. The Neptronic SKRO purifies water using a semi-permeable membrane to remove impurities, dissolved solids, salts, bacteria, and viruses. By applying pressure, water is forced through one or multiple membranes, ensuring exceptionally pure water through advanced filtration.

Designed to fully support Neptronic's humidification range, the SKRO is available in multiple capacities:



Why you need our SKRO?

The Neptronic SKRO Reverse Osmosis system is your best defense against scale buildup, and high maintenance costs. By removing nearly all of the dissolved minerals, it protects your humidifier, ensures cleaner steam, and boosts energy efficiency. Designed to integrate seamlessly with Neptronic humidifiers, the SKRO keeps your equipment running smoothly and your indoor air at its best. Less cleaning, more performance—just pure, smart humidity control.



Fully Automated Operation





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Key Features

- Large capacity range of 265-4510 Lb/h.
- User-friendly interface with LCD display to simplify operation and monitoring.
- Advanced digital sensors to track pressure, water quality (TDS), and flow rates for consistent performance in real time.
- Real-time clock and SD card/USB key for trending, scheduling, and historical tracking.
- Easy upgrades and enhanced functionality via USB updates.
- Dedicated controller to eliminate the need for manual adjustments.
- Top and side access for quick and easy maintenance.
- The enclosed cabinet with a built-in pan drain ensures a clean and secure installation.
- BACnet and Modbus connectivity for smooth integration with building management systems.
- Adaptable to different water conditions.

Applications



Reduces maintenance by providing purified water for consistent performance

Industrial Applications



Perfect for industries such as printing and photography, pharmaceutical, and electronics manufacturing, where clean water is crucial for various processes beyond humidification





Ideal for use with high-pressure humidifiers for optimal humidification efficiency

Hard Water Environments

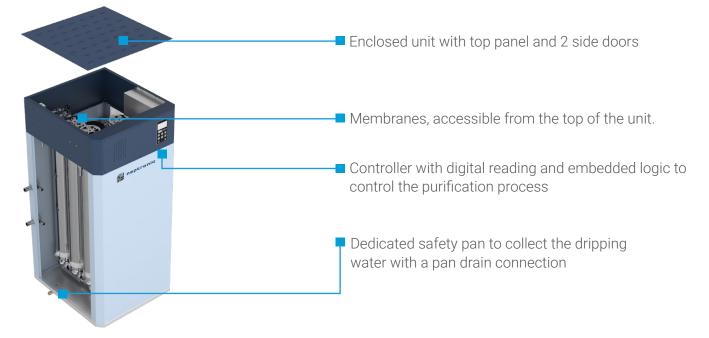


Filters mineral-laden or contaminated water ensuring it's suitable for humidification and preventing scale buildup



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The SKRO Water Treatment System features a **modular cabinet** that accommodates up to six membranes, with a **Neptronic controller keypad** for real-timing monitoring. Its side port membrane housing and manifolds streamline plumbing, keeping the **top caps clear** for easy membrane removal or replacement. Advanced **software-based monitoring** detects performance loss, ensuring efficiency and proactive maintenance.



Integrated, Multi-Platform Controller

The SKRO controller is configured specifically for your reverse osmosis needs.

- User-friendly, menu-driven interface on a 128 x 64 LCD with 8 function buttons for faster configuration and operation
- Customizable menu access for End Users, Technicians, Installers, and Integrators
- Independent scheduling system for unit operation and drain cycle configurable via the menu or the BACnet communication interface
- Firmware updates via SD card, USB, or BACnet
- View and export trending and alarm logs with ease



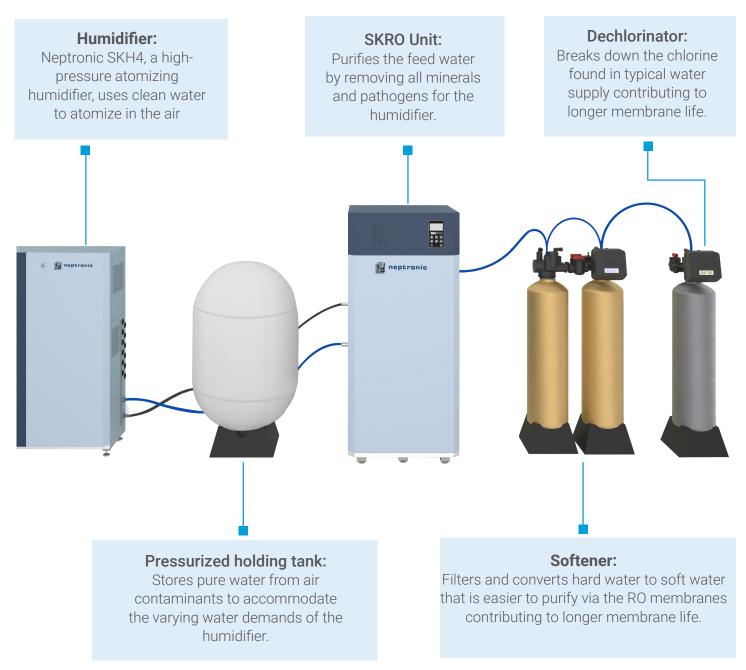




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Full System

The SKRO Water Treatment System is designed to work seamlessly with a dechlorinator unit and water softener to maximize membrane performance and longevity. All components are available directly from Neptronic and can be optionally mounted on a skid for easy installation.



Ν		046		В	Е		
Frequency	Pure water capacity:			Membrane type:	Voltage:		
N=60Hz	-	L/h	GPD		A 100 / 1-1		
	012	121	760		A = 120v / 1ph B = 208v / 1ph C = 220-240v / 1ph D = 208v / 3ph E = 220-240v / 3ph G= 480v / 3ph H= 600v / 3ph		
	022	220	1460	A – low energy			
	023	230	1470				
	046	460	2900	B – extra low energy C – calcium tolerant			
	091	910	5770	D – chlorine tolerant			
	137	1370	8690				
	205	2050	13000				

SIZING WITH NEPTRONIC HUMIDIFIERS

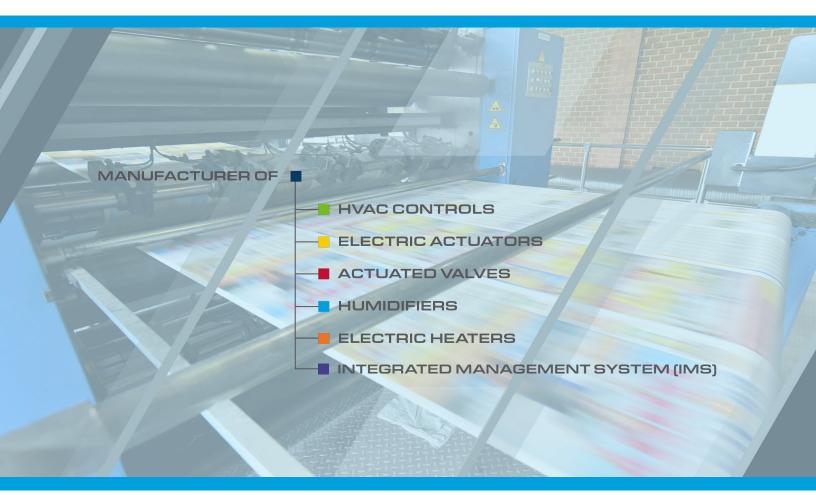
The SKRO is ideal to size with Neptronic's humidifiers for pure water supply.

The following table shows the various models of SKRO that can sized for the humidifiers.

SKRO Model	Capacities of pure water @ 50 °F			SKE Model	SKG Model	SKH4 Model	SKH4 S Model	
	L/h	Lb/h	GPD					
				SKE4-S				Si conteners 0
SKRO-N012x	120	265	760	SKE4-M	-	-	-	
SKRO-N022x	220	480	1460	SKE4-L	SKG4-1	SKH4-N021B	_	
				SKE4-XL	Module			
SKRO-N023x	230	500	1470	-	SKG4-1 Module	SKH4-N021B	-	
SKRO-N046x	460	1010	2900	-	SKG4-2 Modules	SKH4-N050B	SKH4-N062S	
SKRO-N091x	910	2000	5770		SKG4-3 Modules	SKH4-N100B	SKH4-N140S	
SKRO-N137x	1370	3010	8690		SKG4-4 Modules	SKH4-N185B	SKH4-N225S	
SKRO-N205x	2050	4510	13000	-	-	SKH4-N280B	SKH4-N280S	

Humidifier Product Line







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