

atmosfer
MAKINA SANAYI VE TICARET A.S.



REVERSE OSMOSIS

PREMIUM SERIS WATER PURIFICATION SYSTEMS

INDUSTRIAL - MEDICAL

250-4000 LPH



Reverse Osmosis System

- Our RO system boasts a versatile production capacity, ranging from a minimum of 250 to a maximum of 4,000 liters per hour of pure water. It incorporates a high-quality stainless steel high-pressure pump and is managed by a PLC microprocessor, featuring a user-friendly 7" touch screen interface.
- For precision and efficiency, our RO system employs a digital flow meter to measure both production and wastewater quantities. Flow rates can be easily adjusted with a stainless needle valve, and this information is conveniently displayed on the touch screen. Unlike systems using mechanical flowmeters that are prone to human error, our setup is highly reliable.
- To ensure optimal performance, network pressure and membrane input pressure are digitally monitored through pressure sensors on the touch screen. If preset pressure values are exceeded, the PLC microprocessor halts the system and provides error notifications on the screen. We've eliminated manual manometers that can introduce human error into the process.
- Our RO system also allows users to monitor the Total Dissolved Solids (TDS) value of the production water directly on the touch screen.
- To guarantee long-term reliability, we've incorporated three high-quality solenoid valves managed by the PLC microprocessor for precise control.
- In the event of system errors, warnings are displayed on the screen, keeping users informed. Additionally, after filling the production water tank, our RO system automatically rinses itself, extending the lifespan of the membrane filters. This self-rinsing process conserves clean water effectively.
- For safety and longevity, the electric panel features Motor Protection and phase Protection functions.
- The entire system is housed within a sleek, visually appealing, and completely enclosed stainless cabinet.



PURE WATER BOOSTER SET

Our booster system is designed with a material that won't affect the purity of the water tank, and it's a pressurization system that works well for the entire setup. This system uses a vertical stainless steel body, a domestic pump, and a 50-liter expansion tank to provide a linear water pressurization solution.



AUTO BACKWASH ACTIVATED CARBON FILTRATION SYSTEM

Our activated carbon filter system comes equipped with a user-friendly digital control panel that allows you to adjust the timing and initiate backwash as needed. The system utilizes a 10×54 NSF Certified FRP Tank filled with Coconut Carbon media.



CONDITIONING FILTRATION SYSTEM WITHOUT SOFTENER SOLUTIONS

Our system does not incorporate a water softening component; instead, we have implemented a specialized filtration system that does not rely on salt consumption. This design eliminates the potential for human errors, such as forgetting to add salt to a traditional softener, and also eliminates the associated costs, including the initial softener installation. With our innovative Softeneless approach, the lifespan of the membrane filter surpasses one year, and in certain water sources, it has exceeded two years. Should the RO membrane become blocked within the first year, we will replace it at no cost to you.



PURE WATER TANK

Our system incorporates one or more polyethylene pure water tanks, each with a 1000-liter capacity. These tanks are equipped with high-quality water level control mechanisms.

MODELS & SPECIFICATIONS

MODEL	CAPACITY (L/day)	OPERATING PRESSURE (psi)	RECOVERY (%)	POWER (kw)	MEMBRANE DIMENSIONS	MEMBRANE QUANTITY
PREMIUM 140	6000	150-200	50	0.64	4"x40"	1
PREMIUM 240	12000	150-200	50	0.64	4"x40"	2
PREMIUM 340	18000	150-200	60	1.10	4"x40"	3
PREMIUM 440	24000	150-200	60	1.50	4"x40"	4
PREMIUM 540	30000	150-200	60	2.20	4"x40"	5
PREMIUM 640	36000	150-200	60	2.20	4"x40"	6
PREMIUM 840	48000	150-200	60	2.20	4"x40"	8
PREMIUM 940	54000	150-200	60	2.20	4"x40"	9
PREMIUM 1040	60000	150-200	60	2.20	4"x40"	10
PREMIUM 1240	72000	150-200	60	3.00	4"x40"	12
PREMIUM 1540	90000	150-200	60	3.00	4"x40"	15



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