Industrial Water Purification System

aquaPRO Series

Features of **aquaPRO series**

aquaPRO series provide optimized solutions for the industries that require significant amount of purified water. The series perform reliable operation to provide the highest level of water quality and ensure accurate and repeatable results with the high performance of filters.

- Convenient Operation
- Easy & Low Cost Maintenance
- Various Productivities
- Automatic System
- Attractive Price

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aquaPRO-RO Series (Type Ⅲ Water)

- aquaPRO-RO Series produce Type Ⅲ water from tap water
- Removal of organics, inorganics and bacteria by reverse osmosis
- Reverse osmosis membrane delivers highest performance at lowest pressure resulting in less energy usage and lower costs.

aquaPRO-DI Series (Type Ⅱ Water)

- Removal of cations and anions by ion exchange filter

aquaPRO-Ultra Series (Type Ⅰ Water)

- aquaPRO-Ultra Series produce Type Ⅰ water in electrical resistivity 18.2 MΩ · cm
- The water quality complies with ASTM, CAP, ACS and NCCLS to be used with HPLC, GC, IC, AAS and ICP-MS

Various function

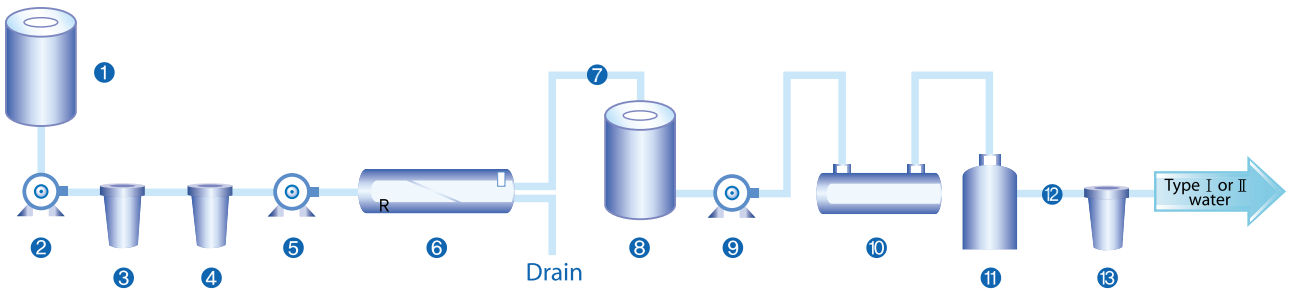
Automatic Control Function

- Electronic control & valve system monitoring
- Alarm checking if lower than set value
- Automatic tank level control system on/off
- Automatic and manual flushing of membrane
- Automatic stop for low & high pressure
- Level limits automatic & manual setting

Optional Function

- Check of used time of prefilter, RO membrane and DI filter
- Automatic drain for protection from being frozen to burst
- Automatic monitoring of temperature and control of pressure
- Automatic leak detection by monitoring pressure

Flow Diagram



❶ Feed Water Reservoir
❷ Raw Water Pump
❸ A. Carbon Filter
❹ Prefilter
❺ High Pressure Pump
❻ R/O Membrane
❼ Conductivity Meter
❽ Produced RO Water Reservoir
❾ Supply Pump
❿ UV Disinfection System(Optional)
⓫ Mixed Bed Polisher
⓬ Resistivity Meter
⓭ Final Filter(0.22 um)

Measuring Components

- **Conductivity / Resistivity Meter** : Display of R/O conductivity and resistivity for purified water
- **Level Switch** : Control level for RO water
- **Flow meter** : Check flow
- **Control Panel** : Operation and control
- **Pressure gauge** : Check pressure at each pipe

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Model	Productivity (ℓ /H)	Water Grade	Demension (W*D*H)	Water Quality	Application
aquaPRO-R200	200	Type Ⅲ Water	700*600*1800	- Particle Removal : 99% - Organics Removal : 99% - Bacterial Removal :99.99% - Pyrogen Removal : 99% - Conductivity : <10 uS	Washing/Ringsing Autoclave Steam Generators
aquaPRO-R400	400				
aquaPRO-R600	600				
aquaPRO-R800	800				
aquaPRO-D200	200	Type Ⅱ Water	1,000*600*1800	- Particle Removal : 99% - Organics Removal : 99% - Bacterial Removal :99.99% - Pyrogen Removal : 99% - Ion Removal : 95 - 99% - Resistivity(at 25℃) : > 10 MΩ·cm	Semiconductor Parts Rinsing PCB Rinsing Creating Medium Electrophoresis Lens Rinsing Ink & Wax Production
aquaPRO-D400	400				
aquaPRO-D600	600				
aquaPRO-D800	800				
aquaPRO-U200	200	Type Ⅰ Water	1,000*600*1800	- Resistivity(at 25℃) : 18.2 MΩ·cm - TOC : 5~10ppb - Silicates < 0.1ppb - Particle < 0.22um - Heavy Metal < 0.1ppb	Reagents For use of IC, HPLC & ICP-MS Standard Solvents and Buffer Solution Supercritical Pressure Nuclear Power Generation Medicinal Use
aquaPRO-U400	400				
aquaPRO-U600	600				
aquaPRO-U800	800				

Various Applications in Industrial Field

1. Seawater Desalination
2. Nickel Recovery Facility
3. Seawater Desalination for Naval Vessels
4. Cogeneration Plant

These Products are manufactured by Young Lin
ISO 9001-certified facility that is periodically
audited by the registering body to ensure compliance

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