

# WATER TREATMENT SOLUTIONS



**SLS  
TECHNOLOGY**

[www.sls-technology.com](http://www.sls-technology.com)

**SLS Technology Co.**  
offers comprehensive water treatment solutions for residential, commercial, and industrial use. Our commitment lies in offering clients the most cost-effective lifecycle, top-notch quality, and prompt service within the water treatment sector.

SLS provides a complete offering of products to address all water treatment applications from Point of Entry (POE) to Point of Use (POU).

We use a variety of water purification technologies including:

- Membrane Filtration (Reverse Osmosis Systems).
- Media Filtration (Ultra Filtration & Nano Filtration Systems).
- ION Exchange, UPW (Water Purification).
- Ultra Violet, Ozone & Chlorine Dioxide (Water Disinfection).

Our revolutionary technology addresses Water Treatment, Purification, Desalination, and Water-saving.

**"Clean Water  
for ALL"**

**SLS uses a systematic process in engineering custom solutions for our customers.**

This process may require up to 72 hours, during which an applications engineer will design, size, and research all the necessary components and equipment to ensure your solution is as comprehensive as possible.

**Below are the 5 steps we follow to design equipment that addresses your customers water issues:**

1. Water Analysis and Project Planning
2. Design and Engineering
3. Manufacturing
4. Quality Assurance
5. On-Site Startup and Troubleshooting

**Industry applications:**

**Agriculture / Automotive / Education and Institutions / Energy and Power / Food and Beverage / Healthcare and Medical / Marine / Microelectronics / Oil and Gas / etc.**



**SLS Technology offers top-quality Reverse Osmosis Systems in the market, ranging from single-house capacity to large industrial systems.**  
**With 17 years of experience, we provide the latest pulse flush technology for optimal performance.**

Reverse osmosis systems function as molecular filters that eliminate dissolved impurities such as mineral, organic, and inorganic particles. They are also effective in eliminating microbial matter like bacterial spores and viruses, which cannot be removed by ion exchange techniques.

These systems have lower maintenance costs with minimal chemical usage, making them environmentally friendly.



# Membrane Filtration

**SL-SWDF series  
(Desalination Systems)  
Capacity:3,000-43,000LPH**



Powered by engineering excellence and membrane based water treatment expertise, SLS standard membrane systems encompass reliability and efficiency in compact designs. The SLSWDF Series provides a reliable source of fresh water at large production capacities, with minimal space and maintenance requirements. Its configuration provides maximum utility of space while incorporating ease of control and safety standards.



SLS Technology's "Industrial system" category equipment are tailored to customers' process needs. SLS Technology together with e-Rotek water systems is a leading manufacturer and supplier of high-quality water purification systems for commercial and industrial use. We offer a full range of systems that are designed to meet the unique needs of each customer.

Our industrial water purification systems are designed to remove impurities, contaminants, and other unwanted substances from water used in a variety of industrial processes, including cooling, boiler feed, process water, and irrigation. We use state-of-the-art design and engineering techniques to ensure that our systems deliver the performance and reliability that our customers expect. Whether you need a standard system or a custom solution, SLS Technology has the expertise and resources to deliver the quality and value you require.

**SLRL series RO Systems  
(Heavy Industrial)  
Capacity:3,000-50,000LPH**



The SLRL reverse osmosis systems are designed for treating low to high TDS feedwaters (below 15,000ppm) encountered in municipal supplies, dam, river waters and brackish water sources.

SLRXL series RO Systems  
(High Flow)  
Capacity: 2,000 - 6,000LPH



SLRXL Series RO systems are specifically designed to produce the largest pure water production using SLS XL-4040 (5000GPD) RO Membranes for feed water TDS below 1,500ppm.

SL-HERO series RO System  
(High Recovery)  
Capacity: 1,000LPH



The convenient, space-efficient wall-mountable RO systems are substantially lower in cost than frame-mounted RO systems, and are more cost-effective for shipment. Easy operation, installation, and maintenance.

SLRBL series RO Systems  
(Brackish Water)  
Capacity: 250-1,000LPH



SLRBL systems are designed for operation with brackish water. Having TDS values below 5,000ppm. It comes with automatic permeate flushing system to avoid membrane fouling after long working hours.

SLRO series RO System  
(Pulse Flush)  
Capacity: 650-1000LPH



The SLRO series are engineered for simplicity in installation, operation, and maintenance. The dependable "Pulse Flush" design eradicates operational errors, consistently pure water quality without the need for operator adjustments.

SLRA series RO Systems  
(Economical)  
Capacity: 150-1,000LPH



The SLRA reverse osmosis systems are designed for treating low to moderate TDS feedwaters (below 1,500ppm) encountered in municipal supplies, dam, and river waters, and bore and brackish water sources. It is economical and most popular module of SLS.

SL-SWM series Water Makers  
(Marine)  
Capacity: 25-250LPH



The low-hassle SWM-A series water makers are engineered to fit on marine. Measuring about 2-3 cubic feet, sail and small power boaters have the opportunity and the advantage of a Rotek water maker.

## SLRBH series RO Systems (Brackish Water) Capacity:250-1,000LPH



SLRBH systems are designed for operation with brackish water having TDS values below 10,000ppm. It comes with an automatic permeate flushing system to avoid membrane fouling after long working hours.

## SLRT series RO Systems (Light Industrial) Capacity:500-2,000LPH



The SLRT reverse osmosis systems are designed for treating low to moderate TDS feedwaters (below 2,000ppm) encountered in municipal supplies, dam, and river waters, and bore and brackish water sources.

## Wall Mount RO System Capacity:120LPH



The convenient, space-efficient wall-mountable RO systems are substantially lower in cost than frame-mounted RO systems, and are more cost-effective for shipment. Easy operation, installation, and maintenance.

## UFC/D series UF System Capacity:1,000LPH



The SLS UF filtration systems not only guarantee consistent filtrate quality and efficiency but also effectively eliminate high turbidity peaks, particles, microbiological impurities (bacteria, viruses, parasites).

# Media Filtration

SLS manufactures a large range of media filtration systems for a wide variety of applications including whole-house filtration, reverse osmosis pre-treatment and post-treatment, and commercial industrial uses. Our filtration systems are equipped with automatic or manual control valves for hassle-free regeneration and backwash cycles.

## Multi-Media Sand Filter Capacity: 1,000-25,000LPH



Multi-Media Filtration contains several types of media and gravel under bedding. It is effective in removing silt, rust, and suspended particles from water with a filtration level of approximately 15 microns.

**"Clean Water for ALL"**



## Activated Carbon Filter

Capacity:1,000-25,000LPH



SLS carbon filters are effective in reducing chlorine, unpleasant tastes and odors, suspended particles, and volatile organic compounds. Backwashing is required to dispose of the accumulated contaminants.

## Iron Removal Filter

Capacity:1,000-25,000LPH



DMI-65 is the most advanced catalytic water filtration media that we use in our iron removal filters. It has extremely high capabilities of removing both Iron and Manganese.

## Clino-X Sand Filter

Capacity:1,000-25,000LPH



Clino-X can remove ammonium ( $\text{NH}_4^+$ ) and metal cations Pb, Cu, Cd, Zn, Co, Cr, Mn, and Fe from solutions with the recovery of ammonium and some metals as high as 97%.

## 3-Stage Whole House Water Filter

20" x 4.5" Big Blue with Cartridge



3-Stage Whole House Water Filter Systems deliver safer, cleaner water to all faucets. The use of larger filter cartridges and housings maintains optimal pressure levels and reduces Sediment (silt, dirt, rust, ETC.).

# ION Exchange - UPW module

SLS offers a wide variety of Ultra Pure Water (UPW) modules. These systems include water softeners, deionizers (Mixed Bed Polisher), and electro-deionization. Ion exchange is a water purification method that removes ions to enhance water purity, often combined with other treatments. Using a charged resin or medium, this process attracts and exchanges ions in water, removing specific ones like calcium and magnesium while introducing others.

## Electrodeionization (EDI) System

Capacity:100-7,000 LPH



EDI system is superior to a conventional mixed-bed deionization system both in ease of operation and maintenance. In addition, no chemicals are used for regeneration during the purification process.



Mixed Bed Polisher  
Capacity:25-7,500 LPH



SLS mixed bed polisher is designed to treat RO permeate water, to deliver higher purity water for commercial and industrial applications, such as rinse water for electronics.

Water Softener  
Capacity: 1,000-25,000LPH



A water softener reduces the calcium and magnesium ion concentration in hard water which causes hard-scale build-up. It also inhibits the cleaning effect of detergent formulations.

# Water Disinfection

SLS offers water disinfection systems using the technologies of ultraviolet, ozone and chlorine dioxide systems. UV is mostly used at POU or loop disinfection applications, while ozone and chlorine dioxide can be used at POE application which can ensure the entire pipeline disinfection after the dosing point.

Ultraviolet (UV) Sterilizer  
Capacity: 200-10,000LPH



Ultraviolet light is a natural, cost-effective & environmentally friendly disinfection process for use in recreational facilities, homes, and other areas where safe, healthy water is a concern.



Ozonated Water Generator  
Designed Flow Rate:1-30M3/H



Ozone enters to bacteria cells and oxidizes its all essential components (enzymes, proteins, DNA, RNA). When the cellular membrane is damaged during this process, the cell will fall apart.

# Chemicals & Dosing

SLS provides and distributes a full range of water treatment chemicals manufactured by Avista Technologies Inc. Membrane systems represent a significant investment, and Avista is an expert in membrane care. We ensure that you receive the maximum useful life out of your membrane system equipment, whether you're using reverse osmosis, ultrafiltration, or multimedia filtration.

## Chemical Dosing System Capacity: 60-200 Liters



Chemical dosing system features chemical-resistant materials compatible with acids, caustics and most water treatment chemicals. It is used in applications that require chemical dosage.

**"There is no substitute for water"**

## CIP System (Membrane Cleaning) Capacity: 100 - 1,000 Liters



Membrane cleaning systems are designed to be used with any RO system to clean membranes without removing them from the system. They minimize the loss of performance and extend membrane life.

## Water Treatment Chemical (Manufacture by Avista)



Chemical additives can be used as pre-treatment for reverse osmosis systems. They are highly effective in preventing membrane fouling or scaling from organic or inorganic contaminants..

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# Thank You

We design FULL systems and provide implementation services as-well.

**Contact: [mika.sahlstrom@sls-technology.com](mailto:mika.sahlstrom@sls-technology.com)**

**Address:**  
No 16, alley 5, lane 608 Bei-An Road,  
Taipei 10458  
Phone: +8869 3886 9170