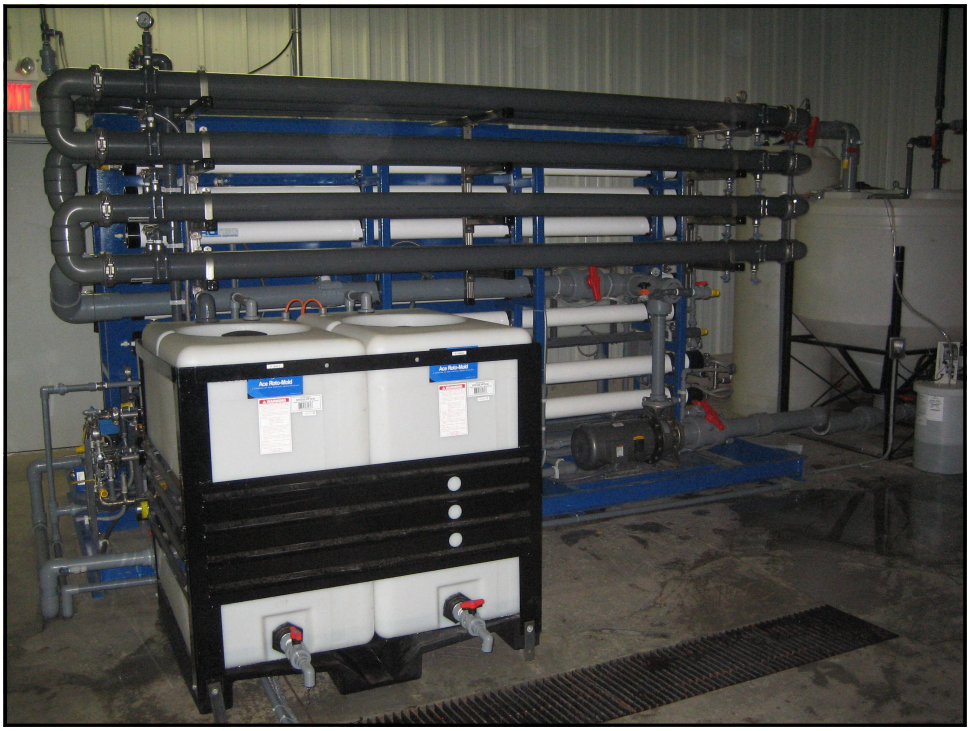
RODI Systems IMS

Integrated Membrane Water Recycling System

The RODI Systems IMS integrated membrane water recycling system is a high-performance wastewater treatment system designed to treat waste streams and provide purified effluent suitable for discharge or reuse. The RODI IMS is suitable for treating waste streams from a number of applications including:

- **Textile Manufacturing**
- **Metal Finishing**
- **Food Processing**
- **Commercial Laundries**
- **Oil and Gas Production and Processing**
- **Vehicle Washing**



Benefits

The RODI IMS treatment system offers a number of benefits that makes it an excellent choice for your application.

Operator Friendly — Each system is automated with a PLC and is equipped with a full complement of sensors for all critical operating parameters such as flow, pressure, temperature, and product quality.

Flexibility — The RODI IMS is capable of treating some of the most challenging waste waters. With the RO treatment options, dissolved solids reduction in the final effluent allows recycling for boiler feed, cooling tower makeup, and other high purity applications.

Quality — The IMS is designed and built by RODI Systems Corp., a leader in the construction of high performance water treatment systems.

Dependability — RODI's systems are serving as dependable waste treatment solutions around the world.

Effectiveness — The high performance water treatment technologies in the IMS systems ensure that the product water is of the highest quality.

General Features

The RODI Systems IMS incorporates a number of features that makes it an effective and dependable way to treat challenging wastewaters.

State-of-the-Art Technology — All RODI IMS systems feature state-of-art technology. The initial treatment step is comprised of tubular ultrafiltration (UF) membrane elements capable of removing emulsified organics and suspended solids down to 0.02 microns. The second step of the integrated process utilizes reverse osmosis to further remove dissolved organic and inorganic compounds producing an effluent suitable for reuse or discharge.

Technical Support and Training — All of RODI's IMS systems are supported by a well-trained and highly experienced group of technical and administrative professionals. Whether by email, telephone, or an on-site visit, RODI's staff is dedicated to supporting each and every product manufactured by RODI Systems.

RODI IMS Specifications

The RODI Systems IMS wastewater treatment systems incorporate a number of specifications which makes them a high quality choice for challenging wastewater treatment applications.

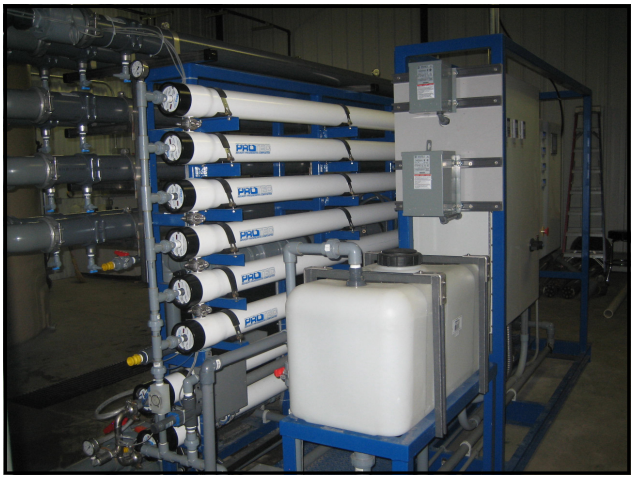
Modular Design — The modular, skid-mounted construction of the IMS system allows it to be easily installed. Containerized versions of the IMS are also available for clients requiring portability.

Construction — All of the IMS systems are constructed of new, industrial quality materials. Skid-mounted systems are built on epoxy-coated mild steel or stainless steel skids. In the case of containerized systems, piping, vessels, and other system components are supported inside the container with fiberglass structural members. All low pressure piping is Schedule 80 PVC or other non-metallic materials. High pressure piping is stainless steel. All valves and fittings are of industrial quality.

Pressure Vessels — All pressure vessels are PVC, stainless steel, or filament wound using fiberglass roving and sealed with an epoxy resin. This results in a corrosion-proof system that will last for years with minimal maintenance.

Instrumentation and Controls — The advanced control system includes a color touch screen operator interface with data logging. The control system also includes a complete set of electronic sensors to assist the operator in monitoring the performance of the system.

Electrical — All electrical construction is done to recognized standards. Rigid or flexible PVC conduit and PVC junction boxes are used to prevent corrosion. Only NEMA 4X non-metallic enclosures are used for control or electrical enclosures. All electrical systems are thoroughly tested before the treatment system is shipped to the client.



Capacities — The IMS systems are designed and built to order and are available in capacities ranging from a few thousand gallons per day to several hundred thousand gallons per day. Automated controls allow the systems to operate continuously thus providing maximum throughput with a smaller capital investment.

Desalting — The IMS systems are available with a reverse osmosis component to allow removal of dissolved solids from high TDS wastewaters. Desalting options include all the necessary pumps, controls, and membrane cleaning equipment for effective operation. When configured for desalting, the IMS system can be designed for maximum recovery (brine concentrating RO) or maximum purity (two-pass RO) or both.

Documentation and Training — All systems are provided with a complete set of documentation which includes component O&M manuals and wiring diagrams. Training is available from RODI's qualified team of professionals. Training may be accomplished at the client's facility or at RODI's facility in northwestern New Mexico.

RODI systems

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