


# Diamond Skid XL

## The Large Capacity High Efficiency Pure Water System

 **Diamond Skid XL** is the largest of our standard industrial water purification systems. It is designed to be used in large capacity production applications that require 20,000 to 60,000 gallon per day of pure, quality water. It offers low production cost and gives years of dependable service with minimal maintenance. We build it as a reverse osmosis system that can be adapted in many ways by adding optional equipment for different uses.



Note: System shown above is pictured with optional delivery system

This system is applicable to various purified water uses such as drinking water projects, water bottling, tech industry applications, manufacturing processes, and beverage production processes. It is ideal for high output projects yet efficient purification processes.

## Water Purification Process

**5 Micron Pre-Filter**—removes particles, sediment, and algae.

**R.O. Pump**—high pressure, stainless steel pump to boost water pressure to 160 lbs. for maximum membrane efficiency.

**Reverse Osmosis Membrane**—water is forced through semipermeable, .0002 micron membrane, allowing only pure water molecules to pass.

**Storage**—water is stored in FDA approved tanks.

## Optional Processes

**AG Pre-Filtration**—removes particulate matter down to 20 microns.

**Maxi-Cure**—an activated carbon filter that removes chlorine, chloramine, solvents, lead, insecticides, gasses, and other harmful contaminants. Works as a water softener without the use of salt by drawing hardness particles together and crystallizing them. Includes an automatic backwashing system.

**Repressurized System**—a 20 G.P.M. pressure pump assures constant water supply from storage tanks to post carbon filter, ultra-violet sterilizer, and faucets.

**Pressure Tank**—33-gallon pressure tank assures a constant flow of water to the filler and prolongs pump life.

**Post-Carbon Filtration**—water travels through 1 cubic foot Post Carbon filter with automatic backwash, polishing it for exceptionally smooth taste.

**Ultraviolet Sterilizer**—25 G.P.M. stainless steel sterilizer eliminates up to 99.9% of all bacteria.

**optional**—ozone may be added to water storage tanks to prevent future bacterial growth.

# WATER BUSINESS



## Features

- 5 Micron Pre-Filter— 4"x20" cartridge on 20,000-30,000GPD systems. Bag type on all other models.
- Electronic Inlet Valve
- High Pressure R.O. Pump
- FRP Membrane Housings
- Waste, Product, and Recycle Stainless Steel Valves
- Waste, Product, and Recycle Flow Meters
- Filter and System Pressure Liquid Filled Gauges
- Low Water Pressure Shut Off
- Time Delay Start/Flush
- Chemical Injection System
- Powder Coated Steel Frame
- Float Level Control for Tank

## Options

- Ozone Generator
- Feed Pump
- TDS Meter
- Hour Meter
- AG Pre-Filtration
- Maxi-Cure Pre-Filtration
- Repressurized System
- Delivery System—Pressure Tank, Pressure Pump, Post-Carbon Filter, UV Sterilizer

GPD	Pretreatment	Pump	Membranes
20,000	7 CU. FT	3 HP	2—8"x40"
30,000	10 CU. FT	5 HP	3—8"x40"
40,000	10 CU. FT	7 HP	4—8"x40"
50,000	15 CU. FT	10 HP	6—8"x40"



## Specifications

- **Feed water:** Temperature: 85°  
Pressure: 40-80 psi  
Operating pressure: 160 psi  
Total Dissolved Solids (TDS): 2000 ppm
- **Tolerance:** Iron: 0.5 ppm  
Silica: 25 ppm@50% recovery  
pH range: 3-11
- **Water recovery**—up to 60%
- **Salt rejection**—90-98%+