

# DiamondSkid-XL



Model	Gallon Per Day	Gallons Per Min.	Media Tank Size	Pump Size	Membranes
XL-20	20,000	13.8 G.P.M.	7 CU. FT	3 H.P.	(2) 8"X40"
XL-30	30,000	20.8 G.P.M	10 CU.FT	5. H.P.	(3) 8"X40"
XL-40	40,000	27.8 G.P.M.	10 CU.FT	7 H.P.	(4) 8"X40"
XL-60	60,000	41.7 G.P.M.	15 CU.FT	10 H.P.	(6) 8"X40"

The 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 gallons 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. 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.

## Purification Process:

- STEP 1:** 5 Micron Pre-Filter - removes particles, sediments, and algae.
- STEP 2:** R.O. Pump - high pressure, stainless steel pump to boost water pressure to 150 lbs. for maximum membrane efficiency.
- STEP 3:** Reverse Osmosis Membrane - water is forced through a semi permeable, .0002 micron membrane, allowing only pure water molecules to pass.
- STEP 4:** Storage - water is stored in FDA approved tanks.

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## Features:

- Powder coated steel frame
- Pre-wired electrical panel
- 5 Micron Pre-Filter: 4"x20" cartridge on 20,000-30,000 GPD systems.
- Electronic Inlet Valve
- High Pressure R.O. pump
- FRP membrane housings
- Product, and Recycle stainless steel valves
- Waste, Product flow meters
- Pre and post filter gauges
- Waste and recycle valves
- All components and materials are either NSF/ FDA/UL/ETL approved

## Options:

- Pretreatment system
- Delivery system
- Ozone Generator
- Feed Pump
- TDS meter
- Water meter

## Specifications:

### Feed water:

- Temperature: 35°-85°
- Pressure: 40-80 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%+

## Optional Processes:

- AG Pre-Filtration - removes particulate matter down to 20 microns
- Maxi-Carb - 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.
- Repressure System - a pressure pump assures constant water supply from storage tanks to post carbon filter, ultra-violet sterilizer, and faucets.
- Pressure Tank - pressure tank assures a constant flow of water to the filler and prolongs pump life.
- Post-Carbon Filtration - water travels through a post carbon filter with automatic backwash, polishing it for exceptionally smooth taste.
- Ultraviolet Sterilizer - stainless steel sterilizer eliminates up to 99.9% of all bacteria.
- Ozone - added to tanks, prevent future bacterial growth.