

DIAMONDSKID

I-MACONI NIGERIA LIMITED

The Industrial Pure Water System

DIAMONDSKID is an Industrial grade Reverse Osmosis water purification system. It is currently used throughout the domestic and international market-place, answering the call for pure, quality, consumable drinking water.



The complete **DIAMONDSKID** system interfaces with additional compatible units to accommodate your every-day water business needs

These units provide you with a means to *clean and sterilize* containers efficiently; *fill* a variety of container sizes; and to *dispense and sell* your pure water product 24 hours a day.

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.

Water Purification Process

STEP 1 AG Pre-Filtration—removes particulate matter down to 20 microns.

STEP 2/3 —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.

STEP 4 5 Micron Pre-Filter—removes particles, sediment, and algae.

STEP 5 R.O. Pump—high pressure, stainless steel pump to boost water pressure to 160 lbs. for maximum membrane efficiency.

STEP 6 Reverse Osmosis Membrane—water is forced through semipermeable, .0002 micron membrane, allowing only pure water molecules to pass.

STEP 7 Storage—water is stored in FDA approved tanks.

STEP 8 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.

STEP 9 Pressure Tank—33-gallon pressure tank assures a constant flow of water to the filler and prolongs pump life.

STEP 10 Post-Carbon Filtration—water travels through 1 Post Carbon filter polishing it for exceptionally smooth taste.

STEP 11 Ultraviolet Sterilizer—25 G.P.M. stainless steel sterilizer eliminates up to 99.9% of all bacteria.

STEP 12-optional—ozone may be added to water storage tanks to prevent future bacterial growth.

Features

- Powder coated steel frame
Alluminum diamond plate base
- Pre wired electrical panel Circuit breaker
- Automatic flush
- LIGHTS-Powder on; system running; low pressure with auto cut-off
- Stainless steel booster pump
- Dual level R.O. controls
- Auto backwash On pre treatment-stainless steel jackets
- Pre and post filter gauges
- Waste and recycle valves
- Product and waste flow meters
- Pressure pump-20 G.P.M.
- Ultraviolet sterilization light-25 G.P.M.
- All components and materials are either NSF/FDA/UL/ETL approved
- Stainless steel membrane housings

OPTIONS

- Ozone generator
- Feed pump
- TDS meter
- Hour meter

Model	Gal./litres per day	Dimensions	Weight
DS-1	1,500/5,625	99L x 30W x 74H	675
DS-2	3,000/11,250	99L x 30W x 74H	700
DS-3	4,500/16,875	99L x 30W x 74H	725
DS-4	6,000/22,500	99L x 30W x 74H	750
DS-5	7,500/28,125	99L x 30W x 74H	775
DS-6	9,000/36,000	99L x 30W x 74H	800

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%+