

DI Skid





GOSHU KOHSAN CO., LTD
www.goshukohsan.com

Delonization Skid (DI Skid) : DS Type

Optimal and Cost-Effective System with One Skid for Pure Water Production

Introduction

It is generally known that deep well water, surface water or industrial water contains impurities such as inorganic ions, organic substances, suspended solids or colloidal particles. Moreover, the demand of several industries such as food industry, electronic industry, etc to meet the requirements of higher water quality is increasing. Certainly, the DI skid is developed to respond to this need. The DI skid can remove the undesirable substances and generate pure water with excellent quality to meet the requirements for each industry. Furthermore, the design of DS type DI skid has been based on the efficient combination of reverse osmosis and ion exchange resin systems along with the safety pretreatment such as activated carbon filter in our package unit. The DI skid is also available to combine with other skids such as UDI skid in order to produce the ultra-pure water that offers higher water quality.

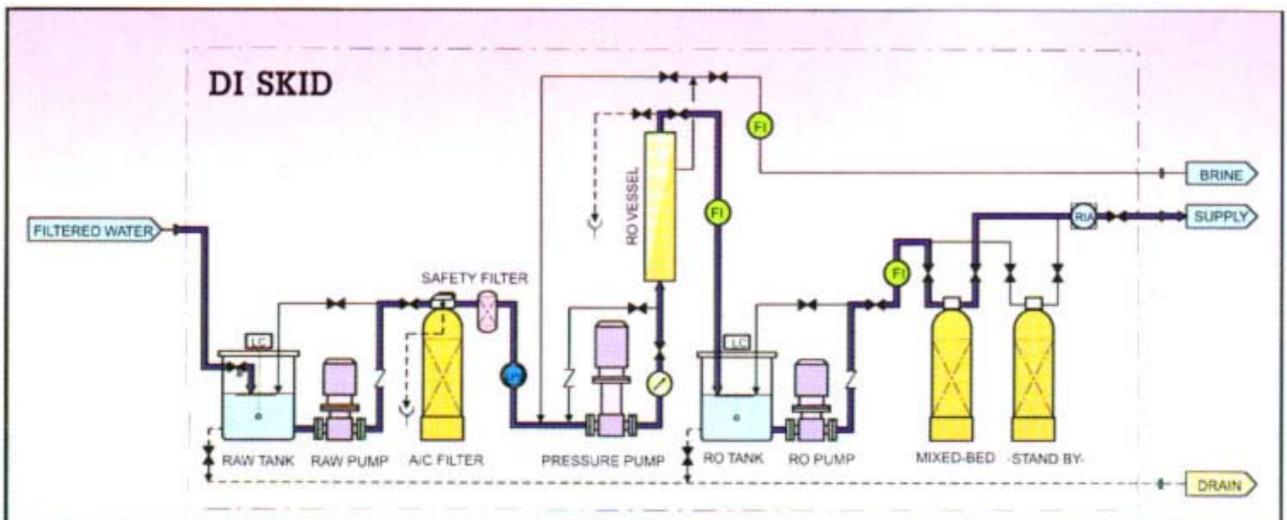
Features

- High quality of pure water by using RO and mixed-bed resin
- Easy Installation with a compact package unit
- Easy to operate with on-line devices
- Safety operation due to safety devices and high performance of control panel
- Automated flushing system after the start-up time
- Easy maintenance and replacement for the suitable installation point for the equipments
- Easy to combine other skids to produce the higher quality of water such as sand filter unit, chemical feeding unit or UDI skid

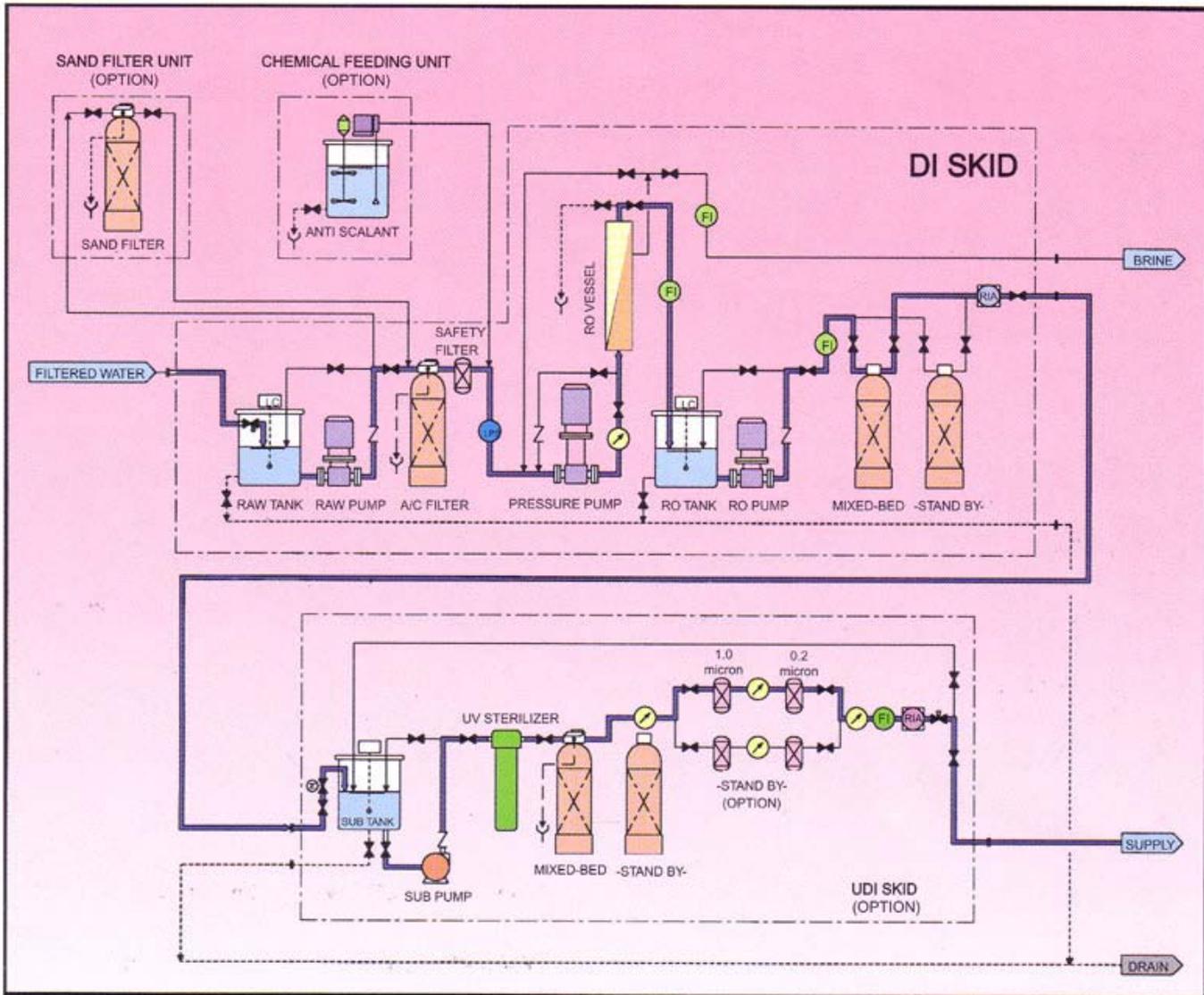


Applications for DI Water

1. Manufacture of Precision Parts and Glass
2. Food Industry
3. Pharmaceutical Industry
4. Cosmetic Industry
5. Research-Laboratory
6. Medical Use
7. Supply Water for Boiler
8. Others



Flow Diagram for System Combination



Constituent Equipment of DI Skid

Activated Carbon Filter	To adsorb the residual chlorine and organic substances before RO treatment system. It is also operated with automatic backwash system.
Cartridge Filter	To protect the membranes and the high pressure pump from suspended particles. It is a safety filter for RO system.
Reverse Osmosis (RO)	To desalinate the ions and remove silica, organic, particles and bacteria in feed water.
Mixed-bed Polisher	To produce the water quality above 1 MΩ·cm by mixed-bed polisher, which can be replaced with stand-by column.
Resistivity Meter	To measure the resistivity of produced DI water with high sensitivity and accuracy.

Specification List of DI Skid : DS Type

Specification	DS-200			DS-500			DS-1000		
Treated Capacity (25°C)	200 L/Hr			500 L/Hr			1000 L/Hr		
% Recovery	50	60	70	50	60	70	50	60	70
Feed Water (L/Hr)	400	333	286	1000	833	714	2000	1667	1429
Raw Water Tank	PE 25 L			PE 25 L			PE 25 L		
A/C Filter	50 L, FRP made Auto-backwash by timer			50 L, FRP made Auto-backwash by timer			50 L, FRP made Auto-backwash by timer		
Safety Filter	20", 5 μ			20", 5 μ			20", 5 μ		
Raw Pump	1 m ³ /Hr x 30 m ^H x 0.37 kW			1 m ³ /Hr x 30 m ^H x 0.37 kW			1.5 m ³ /Hr x 30 m ^H x 0.37 kW		
Pressure Pump	1.2 m ³ /Hr x 140 m ^H x 1.5 kW			2.4 m ³ /Hr x 160 m ^H x 2.2 kW			6 m ³ /Hr x 150 m ^H x 4.0 kW		
RO Membrane	φ 4" x 1 Element			φ 4" x 2 Elements			φ 4" x 4 Elements		
RO Tank	PE 25 L			PE 25 L			PE 25 L		
RO Pump	1 m ³ /Hr x 30 m ^H x 0.37 kW			1 m ³ /Hr x 30 m ^H x 0.37 kW			1 m ³ /Hr x 30 m ^H x 0.37 kW		
Cartridge Polisher with Mixed-Bed Resin	50 L, FRP made (1 x stand by 1)			50 L, FRP made (1 x stand by 1)			50 L, FRP made (1 x stand by 1)		
Skid Dimension (W x D x H)	2000 x 950 x 1800			2000 x 950 x 1800			2200 x 950 x 1800		
Product Weight (Kg)	670			700			760		
Operating Weight (Kg)	935			960			1000		

* Wide range of product besides above items are available.

* All designs and specifications will be subject to change with or without prior notice.