

Deionization Skid (DI Skid)

Innovative Compact Technology For Deionized Water System

DEIONIZED WATER SYSTEM ON SKID

The deionization skid (DI Skid) has been designed under concept to produce the high quality of deionized water for small space area to installation and easy removable compact unit follow industrial requirements. The DI Skid unit also operation procedures are easy, in the part of the A/C filter when back wash step it's controlled by automatic timer, the RO unit operated by automatic flushing and in the mixed bed column no chemical feeding unit needed to regeneration at local place. It's prepared by our service teams in the kind of completely regeneration mixed bed column, which both a strong acid cation and strong base anion exchange resins is contains mixed inside in the bed will took back for regeneration by using hydrochloric and caustic soda at our process plant and delivered for operation again to customer. This mixed bed column available provide by one for duty and another one for standby rotation bed. Then the deionized skid unit will make not only decrease difficult in operation and maintenance but also completely deduct in wastewater treating cost.

PRODUCT FEATURES

- * High desalination performance ($EC \leq 1 \mu s/cm$)
- * High recovery rate of feed water (Recovery rate : ~ 70%)
- * Very compact unit need small space to installation.
- * Control automatic backwash A/C filter with timer
- * Produces the smallest volume of backwash water dyestuffs
- * The RO Unit operated by automatic flushing.
- * No use chemicals for regeneration at the local, gives no wastewater treating cost.
- * Operation and maintenance procedures are easy.

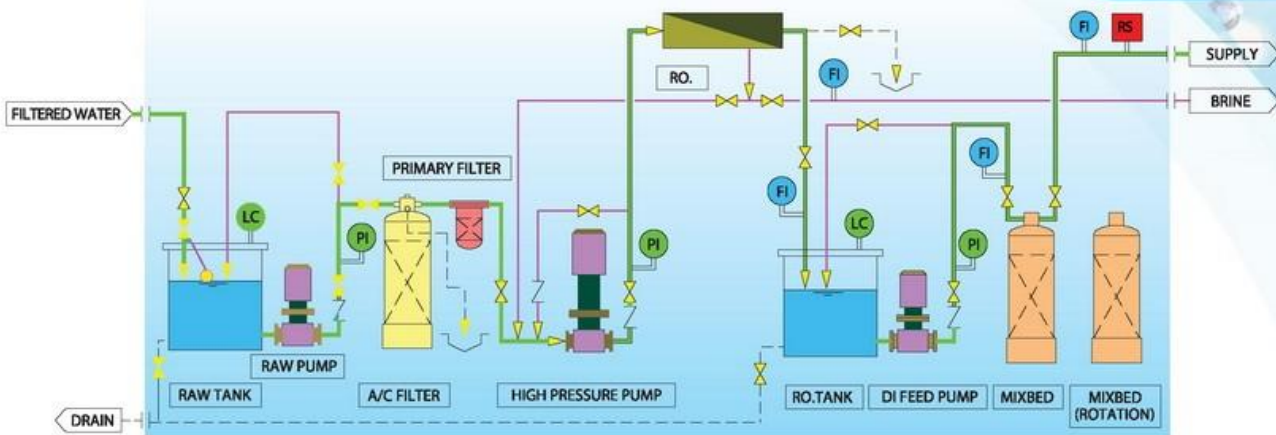
PRODUCT APPLICATIONS

This particularly high degree of purity is essential in areas such as.

1. Semiconductors
2. Electronics
3. Printed circuit boards
4. Precision instruments
5. OPTO – electronic parts
6. Cosmetics
7. Pharmaceutical
8. Pigments and dyestuffs
9. Laboratory
10. Other



DI SKID



PRODUCT SPECIFICATIONS OF DI SKID

Model	DI 250	DI 500	DI 1000	DI 2000
Capacity (m ³ /hr)	0.25	0.5	1.0	2.0
Raw Water Tank	25 L (PE)	25 L (PE)	50 L (PE)	50 L (PE)
Raw Water Pump	0.5 m ³ /hr x 20 mh 0.37 kw	1.0 m ³ /hr x 20 mh 0.37 kw	2.0 m ³ /hr x 20 mh 0.37 kw	4.0 m ³ /hr x 20 mh 0.55 kw
A/C Filter	50 L Auto Backwash	50 L Auto Backwash	50 L Auto Backwash	75 L Auto Backwash
Primary Filter	20" x 5 μ	20" x 5 μ	20" x 5 μ	20" x 5 μ (2 sets)
High Pressure Pump	1 m ³ /hr x 145 mh 1.5 kw	2 m ³ /hr x 145 mh 2.2 kw	3 m ³ /hr x 145 mh 3.7 kw	5 m ³ /hr x 145 mh 5.5 kw
RO Membrane	Ø 4" x 1 element	Ø 4" x 2 element	Ø 8" x 1 element	Ø 8" x 2 element
RO Vessel	Ø 4" x 40" x 1, 1 set	Ø 4" x 40" x 1, 2 sets	Ø 8" x 40" x 1, 1 set	Ø 8" x 40" x 1, 2 sets
RO Water Tank	25 L (PE)	25 L (PE)	50 L (PE)	50 L (PE)
DI Feed Pump	0.25 m ³ /hr x 20 mh 0.37 kw	0.5 m ³ /hr x 20 mh 0.37 kw	1.0 m ³ /hr x 20 mh 0.37 kw	2.0 m ³ /hr x 20 mh 5.5 kw
Mixedbed Tank	25 L (1 set operate, 1 set rotation)	25 L (1 set operate, 1 set rotation)	50 L (1 set operate, 1 set rotation)	50 L (1 set operate, 1 set rotation)
Skid Dimension (W x D x H)	2000 x 940 x 1800	2000 x 940 x 1800	2200 x 940 x 1800	2700 x 940 x 1800
Empty Weight (kg)	650	680	750	800
Running Weight (kg)	900	920	960	1080

Feed Water Quality (Filtered Water)

* Turbidity	≤ 1.0 NTU
* Electric Conductivity	≤ 300 μs/cm
* pH	7 ± 2
* Temperature	25 ± 7 °C
* Pressure	≥ 2.5 kg/cm ²

Treated Water Quality (DI Water)

* Electric Conductivity (Resistivity)	≤ 1 μs/cm (≥ 1 MΩ·cm)
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Notice

- * Offer a board range of product follow requirements.
- * This specifications will be subject to change with or without while developing one resource, we carefully prior notice protect the order.

While developing one resource, we carefully protect the others.



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