

510. USP PURIFIED WATER SYSTEM – “PHARMA RO-EDI HT SERIES”

Function:

Reverse Osmosis systems “RO-EDI-HT” are used to generate pure water which exceeds USP(United States Pharmacopeia) requirements for conductivity and TOC. They are unique water purification systems that combine reverse osmosis and electro-deionization in integrated units. The Reverse osmosis and EDI module are heat sanitizable upto 80° C.

Applications:

- Pharmaceutical grade water for all pharma applications.
- **Output water Specification:**
USP purified water specification
- Conductivity <1.3 μ S/cm @ 25° C in line measurement.
- Total Organic Carbon (TOC)< 0.5 ppm.

**Features:**

- Initial prefiltration, softening and dechlorination of feed water supply.
- Clean in place tank(200 L) and recirculation pump(1 m3/hr@ 4 kg/cm2) for ease of cleaning and sanitizing .
- Stainless steel (316L) piping and fittings.
- Pressure, temperature, conductivity and flow sensors
- RO-EDI components on one skid.
- Stainless steel control panel.
- Stainless steel RO housing.
- Heat sanitizable RO membranes and heat sanitizable EDI module(80° C max.)
- State of the art PLC controls with 10” Graphical touch screen human machine interface.
- Full factory acceptance test on each system.
- Design according to ASME BPE guidelines

GEOMETRY ENGINEERING INNOVATION,

No 4, Basaveshwara Industrial Area, Rajagopalnagar Main road, Bangalore-560056

www.geiprocess.com. E-mail:info@geiprocess.com DOC DT000510 RO

GEI Process

- Orbital welding and 10% boroscopy of the joints*
- Documentation package.

Ordering Information:

Model	USP PHARMA RO EDI HT SERIES*						
	A-200	A-500	A-1500	A-2000	A-2500	A-3000	A-4000
Part No.	510-000-001	510-000-002	510-000-003	510-000-004	510-000-005	510-000-006	510-000-007
Out put flow(lph)	190	475	1300	1900	2400	3300	3800
RO Membrane size(inch)	4"	4"	8"	8"	8"	8"	8"
No. Of membrane	1	1	1	2	3	5	6
Max. Flow per cell(lph)	300	1000	1500	2300	1500	2300	2300
No of E cell	1	1	1	1	2	2	2

- Customized Systems are available for flowrates greater than 3800 lph. For more details contact our application specialist.

Additional options available on request:

- Hot water sanitizable UV system
- Hot water sanitization skid which includes:
 - Heater
 - Stainless steel jacketed distribution tank*
 - Distribution pump*

*Volume and flowrate based on customer requirement

All dimensions are in mm. unless and otherwise specified.

The information contained in this brochure is for guidance only. We reserve the right to modify any material or feature without notice in advance. For further information, please, consult our application specialist

ENGINEERING SOLUTIONS

GEOMETRY ENGINEERING INNOVATION,
No 4, Basaveshwara Industrial Area, Rajagopalnagar Main road, Bangalore-560056
www.geiprocess.com. E-mail:info@geiprocess.com DOC DT000510 R0

Filename: 510_USP PURIFIED WATER SYSTEM
Directory: C:\Users\user\Documents
Template: C:\Users\user\AppData\Roaming\Microsoft\Templates\Normal.dot

m
Title:
Subject:
Author: user
Keywords:
Comments:
Creation Date: 05-03-2014 23:20:00
Change Number: 4
Last Saved On: 06-03-2014 22:16:00
Last Saved By: user
Total Editing Time: 7 Minutes
Last Printed On: 04-07-2014 16:26:00

As of Last Complete Printing

Number of Pages: 2
Number of Words: 371 (approx.)
Number of Characters: 2,117 (approx.)