



**SPECIFICATION FOR ULTRAPURE WATER PURIFICATION SYSTEM**

- Ultrapure Water Purification system with Potable tap water feed.
- Pre-treatment cartridge with anti-scaling compound and silver impregnated carbon to avoid the need for extra softener.
- Pre-treatment cartridge PP depth filter to ensure longer RO membrane life.
- High flux thin film composite polyamide RO membrane with 94- 99% rejection.
- Conductivity meter before and after RO to measure the performance of the system.
- Recirculation loop with capillary tube and diaphragm valve to reduce wastage of water.
- Permeate divert valve Preventing premature exhaustion of downstream purification system.
- Built in minimum 6 litre tank to store purified water to avoid extra cost of accessories.
- Recirculation Pump with unique temperature feedback mechanism to maintain constant flow rate both at high and low temperature conditions.
- Coaxial resistivity cell with a flow through design and a cell constant of 0.01cm<sup>-1</sup> for accurate measurement of product water resistivity.
- System should display both compensated and non-compensated temperature accurate within  $\pm 0.1^{\circ}\text{C}$  (GLP compliant).
- Final filter with 0.22 micron membrane filter in stack disc configuration for removal of bacteria and particulates
- Optional point of use UF cartridge with LRV is between 5.6 and 7.65 over challenge range of 220 and 22000 Eu / mL.
- System operation display depicts water quality / temperature compensation / product unit / pressure units / pack lifetime.

- Should be propriety product of the firm.
- Feed Water Specifications : Water Quality : Potable tap water; Fouling Index ( SDI ) : 12; Free Chlorine : <3ppm; Conductivity : <2000uS/cm.
- Product Water Specifications: Resistivity : 18.2 Meg Ohm.cm (@ 25 degree C );
- TOC:<10 ppb; Bacteria , Flow Rate: 3L/Hour @25 degree
- Warranty and AMC for 3 year