

Specifications for Water Purification system for Type 1 water (Ultra pure)

1. It should be a compact system capable of producing Ultra Pure Water for molecular biology applications.
2. Prefiltration System: Three stage pretreatment system with 10, 5 & 1 micron spun filters for removal of suspended particles and to take care of F.I. in water.
3. Microprocessor - controlled Management Systems for continuous monitoring of water purity
4. Should produce Ultra-Pure water (Type- 1) from tap water for different applications
5. It should be single stage system with the filter at the tap with bacteria <0.01CFU/ml, Endotoxin<0.001 EU/ml, RNase <1pg/ml and DNase <5pg/ml, TOC²≤ 5 ppb, pH of the ultrapure water should effectively be neutral
6. Should have R.O; D.I/purification pack; and double wavelength UV (185/254 nm) in a single unit
7. It should have an integrated / separately provided docking / storage vessel with 6-50Liter capacity for storing the water
8. It should have recirculation facility to maintain consistent peak water purity.
9. It should have display for TOC & temperature, conductivity, volume dispensing, alarm and tank water level indicator.
10. Instrument should show water volume in reservoir graphically.
11. It should have cartridge change indicator.
12. The production rate of the unit should be minimum 3L/Hr. and the dispense rate should be minimum 1.0L/min.
13. Twoyears on-site warranty with 5 year annual maintenance contract
14. Should be provided with UPS/Stabilizer/CVT as required for functioning of the equipment (ii) All cartridges, filters, pump or any such item which is /are essential for installation and functioning /operating the equipment.