

# Ultra-pure Water Purification system



### Special Feature

**Water Still**  
Fully automatic mechanism  
2.5ℓ / min distilled water production capacity  
All pyrex glass  
Quartz heater  
Maintenance-free

**Housing**  
Compact moving cabinet  
Left and right water supply  
Durable powder coated body  
Built-in flow meter

**Water Storage**  
Water level meter  
Water flow meter  
60ℓ capacity water storage

**UV Radiation Unit**  
254 nm germicidal 8 Watt immersion Lamp

**Automatic Control Unit**  
Resistivity monitor : 0 ~ 20MΩ  
Water production Control  
Water reservoir Control  
UV Lamp  
Safety System

**Ultrafiltration Unit**  
Sterile 0.2μm final Membrane filter

**Filter Housing**  
Twist-lock filter housing  
Patent pending screw & push type cartridge adaptor

**Prefiltration Unit**  
1μm Hi-Clean prefilter  
Activated carbon filter  
Cation Ion Exchange

**Deionization Unit**  
Carbon cartridge x 1  
Ion exchange cartridge x 2

**Patent Pending** (특허제 0162749호)

## Feature

- ❑ 18.3 MΩ Reagent Grade Ultra Pure Water Purification System
- ❑ Maximum 2.5ℓ / min Production Capacity
- ❑ 60ℓ Water Storage Reservoir
- ❑ Completely Automatic Water Production Mechanism
- ❑ Germicidal 8 watt UV Radiation Immersion Lamp
- ❑ Soft Water System Prevent Scale in the Water Pathways

MODEL	GSDI-3007
Dimensions (W x D x H mm)	900 x 530 x 1345
Capacity	Distillate 6.0ℓ / hour Deionization 1.0ℓ / hour
Heater	High Quality Quartz Sheated Heater, 4.4kW
Pump	Pump 1 Distilled Water + Lamp Switch 1 Pump 2 Deionized Water + Lamp Switch 2
Water Flow Schematic	Tap Water ⇒ Prefiltration Distillation ⇒ UV Radiation Deionization ⇒ Final Filtration
Water Quality	Distillated Water : 3.5MΩ Ultrapure Water : 18.3MΩ
UV Radiation	254nm Germicidal 8 watt UV Lamp
Operation Mechanism	Complete Automatic System
Ultra filtration System	Organic Free Activated Carbon x1 Mixed Bed Ion Exchange x2 0.2μm Membrane Final Filter x1 (Option)
Max. Inlet Pressure	3.5kg/cm <sup>2</sup>
Electric Supply	220V 50/60Hz, 20 Amp

### Application

- ▶ Reagent Water for HPLC, ICP, AA, Spectroscopy
- ▶ Tissue & Cell Culture
- ▶ Electrophoresis, Biotechnology
- ▶ Enzymology
- ▶ Semiconductor Manufacturing
- ▶ Washing Water for Precision Parts
- ▶ BOD Reagent Water

### UltraPure Water Quality

- |                         |                   |
|-------------------------|-------------------|
| ▶ Pyrogen Free          | Bioresearch Grade |
| ▶ Resistivity           | > 18.3MΩ -cm      |
| ▶ TOC                   | < 5 - 10 ppb      |
| ▶ Total Dissolved Solid | < 5 - 10 ppb      |
| ▶ Heavy Metals          | < 0.1 - 1 ppb     |
| ▶ Silicates             | < 5 - 10 ppb      |
| ▶ Particle Removal      | > 0.2 μm          |