



# ESSE UP WATER PURIFICATION SYSTEM

## General Features

### ■ Verified Ultrapure Quality of Water

This unit was analyzed against international Model by KIST, nation's leading analyzing center, and was verified to be the same quality of water.

### ■ A great Variety of Components

- Convenient and Decontaminated circular dispenser
- Efficient Dual UV Lamp chamber
- Endotoxin - free ultrafilter
- TOC Monitor

### ■ Easy and Handy Function

The system controller assisted by microprocessor operates automatically so that it can help you not to lose and unnecessary time. Also just simple setting, you can achieve not only the maintenance of Ultrapure Water Quality but also the management of expendable.

### ■ Sensational Design

We have established a production line in which the cartridges on the case are made using a moulding technique. With top-ranking companies. The Convenience in using the product as well as the design based on traditional images of Korea will benefit the consumers by giving a great satisfaction in having chosen the product and creating a comfortable working environment.



### ■ Dispenser

You can regulate a quantity of water which you want by point of use controller.

### ■ Microprocessor Control system

With a programme setting, you can control the management of expendable, the service check, the state of Stand by, the automatic circulation and the self-diagnosis

### ■ Esse-UP Pack I, II

It is very easy to exchange a Pack because this unit is adopted the Quick connecting method first in the world. There is no leaking as you exchange this unit always maintains a clean space.

### ■ Dual UV Lamp Chamber

The unit can lower the TOC level up to 1ppb by Sterilizing Effect (254nm) and Organics Oxidization(185nm). This is suitable for HPLC, GC/MS and TOC Analysis.

### ■ Ultrafilter(MWCO 5,000)

Also the unit can bring down the numerical value of Endotoxin (Pyrogen) up to 0.001EU/ml which is adopts itself to water for research.

### ■ TOC Monitor

The unit can indicate the numerical value of TOC as well as the Resistivity by the TOC sensing.

### ■ Measuring

The Cell invariable is just  $0.01\text{cm}^{-1}$ , so resistance accuracy is very element by using the tenoeratyre cakubratuib sensor

### ■ Interface

You can ger the GLP data using by RS-232C, RS485 port

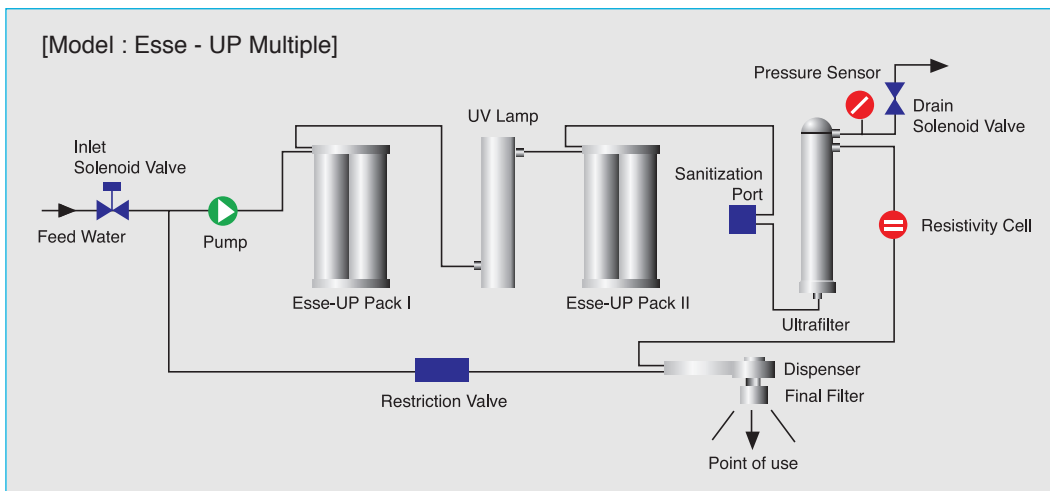


# ESSE UP WATER PURIFICATION SYSTEM

## Specification

Model	Esse-UP Basic	Esse-UP Analysis	Esse-UP Bio-test	Esse-UP Multiple	Esse-UP Analy-TOC	Esse-UP Multi-TOC
Flow Rate (up to)	1.5L/min	1.5L/min	1.0L/min	1.0L/min	1.5L/min	1.0L/min
Product Purity						
- Resistivity (at 25 °C)	18.2 /MΩ·cm	18.2 /MΩ·cm	18.2 /MΩ·cm	18.2 /MΩ·cm	18.2 /MΩ·cm	18.2 /MΩ·cm
- Inorganics	<0.1ppb	<0.1ppb	<0.1ppb	<0.1ppb	<0.1ppb	<0.1ppb
- TOC	5-10	1-5	5-10	1-5	1-5	1-5
- Endotoxin(Pyrogen)	-	-	<0.001Eu/ml	<0.001Eu/ml	-	<0.001Eu/ml
- Particles (0.2 μm)	<1ml	<1ml	<1ml	<1ml	<1ml	<1ml
- Bacteria	<1cfu/ml	<1cfu/ml	<1cfu/ml	<1cfu/ml	<1cfu/ml	<1cfu/ml
System displays and monitorings (Microprocessor Programmable LCD)	- Dispenser timer for product quantities - Resistivity (at 25 °C) - Protection for high temperature feed water - Pack exchange reminder - Protection for low product quality - Water temperature - UV Lamp exchange reminder (UV Model) - Ultrafilter exchange reminder (UF Model) - Operating pressure(UF Model) - Sanitization reminder (UF Model) - TOC Monitor (TOC Model)					
Utilities						
- Electrical power	110 / 230V, 50, 60Hz, 54Va					
- Interface	RS-232C / RS485 for data output					
- Dimension	W360 x D400 x H470 (mm)					
- Operating Weight	21.8kg	23.2kg	22.6kg	24.0kg	23.3kg	24.1kg
Standard Accessories	- 1 Esse - UP Pack I , II		- 1 Dispenser			
Absolute	- 1 Operation Manual		- 1 Power Cable, Tubing Kit			
Microfilter : 0.05μm	- Absolute	- UV Lamp	- Ultrafilter	- UV Lamp	- UV Lamp	- UV Lamp
Final Filter : 0.2μm	Microfilter	- Absolute	- Final Filter	- Ultrafilter	- TOC Monitor	- Ultrafilter
		Microfilter		- Final Filter	- Absolute	- TOC Monitor
					Microfilter	- Final Filter
Optional Accessories	- Interface Cable		- Wall Mount Bracket			
	- Sanitization Tables		- Final Filter, 0.2μm			

## Flow Schematic Diagram



**!** The instruments have been tested in 220V, 60Hz power condition. There can be performance difference according as power condition of each country