



# CHM AQUA Series

## Purification Water System



We are delighted to be able to present to you our CHM laboratory water purification systems. You can choose from a complete line of products – ranging from the CHM AQUA DI basic system to the CHM AQUA VF with an integrated UV oxidation chamber and ultrafilter, depending on your application.

### Product Profile

Type 1\* laboratory water purification system. Designed to meet the requirements of reagent grade water for routine analysis (18,3 M $\Omega$  + cm, TOC < 5 ppb), with low endotoxin (0.001 EU/ml) and total organic carbon levels (<1 ppb) in UF and VF.

### Advanced Design Features Include :

#### Large filter exchange period, with an optimized performance and flow rate

The CHM AQUA Series systems produce ultrapure water with a resistivity up to 18.3 M $\Omega$  × cm and a TOC value < 5ppb. High purification capacity ensures long service life while at the same time optimizing water flow to achieve delivery rates up to 1.2 l/min.

### Features

Continuously indicates water quality in M $\Omega$  × cm or  $\mu$ S/cm with compensated or non-compensated temperature. A self-test diagnostic control feature monitors and displays status of the system on request (internal and external). Filter exchange indicator programmable by 2 steps as below:  
 1st alert message (warning message for the filter exchange)  
 2nd alert message : exchange filter Time elapsed indicator.

### Integrated Control

Microprocessor controlled process-logic, continuously monitors system status to provide high purity water on demand 24 hours per day. A standby mode recirculates water in order to maintain purity levels.

### Quality

Inert materials used for all wetted parts guarantee the highest water purity.

### Security

0.2  $\mu$ m asymmetric heterogeneous pleated PESU membrane filter capsule with filling bell ensures a bacterial free filtrate.

### Applications

#### AQUA BC

- Atomic Absorption (AA)
- Ion Chromatography (IC)
- Inductively Coupled Plasma (ICP)
- Inductively Coupled Plasma Mass Spectrometry (ICP/ MS)
- High Performance Liquid Chromatography (HPLC)

#### AQUA UV

- High Performance Liquid Chromatography (HPLC)
- Atomic Absorption (AA)
- Ion Chromatography (IC)
- Inductively Coupled Plasma (ICP)
- Inductively Coupled Plasma Mass Spectrometry (ICP/MS)

#### AQUA UF

- Cell culture media
- Protein purification
- Gel Electrophoresis

#### AQUA VF

- Cell culture media
- Protein purification
- In-Vitro Fertilization


## Specifications




AQUA UP900				
Water Quality Display	0 a 18.3 M? x cm			
Product water quality	Up to 18.3 M? x cm			
Controller	Microprocess one Touch technology			
Display	16 x 2 Characters Backlight LCD Digital Display			
Type	BC	UV	UF	VF
Feature				
- 0.2um/cm Final filter	STD	STD	STD	STD
- 254/185 UV lamp		STD		STD
- MW 5000 UF filter			STD	STD
- PVDF 1/4 dispensing gun				
Include Filter & Accessories	. Post A/C Filter		. Pack Aqua UP	
	. Manual		. Power cord.	
Water Quality				
- Product flow rate(L/min)	1.2	1.2	1	1
- TOC(ppb)	5 - 10	0 - 5	5 - 10	0 - 5
- Endotoxin(Eu/ml)	NA	NA	< 0.001	< 0.001
- Bacteria(cfu/ml)	< 1	< 1	< 1	< 1
- Particles(>0.22uµ/cm)	< 1	< 1	< 1	< 1
Controller Functions	1. Self Test : Self-test for diagnosing operating conditions.(Internal/External) 2. Auto cleaning : auto drain for 30sec, when it turns ON(power ON) 3. Auto flushing : for the membrane washing, automatically. - Flushing time : 1 to 99min. - Period cycle : 1 to 99hrs. 4. Manual flushing : Manually washing the filters is available 5. Time elapse indicator : cursor blinking 6. Built-in ROM, RAM, CPU(one chip) microprocessor. 7. Filter exchange indicator : programmable by 2 step as below ; 1st alert message : 1st reminder for filter exchange 2nd alert message : The filter must be exchanged			
UP water analyzing data	1> metal impurity (unit: ppb)		2> anion/cation (unit:ppb)	
	Fe	<0.005	Cl	<0.01
	Cu	<0.005	NO2	<0.02
	Al	<0.005	NO3	<0.02
	Ni	<0.005	SO4 (-2)	<0.01
	Zn	<0.02		
	Cr	<0.005		
	Na	<0.01		
	K	<0.02		
Dimensions (W x D x H)	400 x 567 x 500mm			
Power	220V, 50/60Hz, 60W			

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