

JW Hospital Equipment



**SCRUB STATION**  
**MULTIPURPOSE**

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# AUTOMATIC SCRUB STATION

CHS-MATIC I, II, III



**CHS-MATIC II**  
Mirror(OPTION)



**CHS-MATIC III**



**CHS-MATIC I**

CHS-MATIC Series are complete equipment with a special micro-filtering system, heating system for hot water and ultra-violet sterilizer. An ideal Scrub-Station which can be operated either manually or automatically.

AUTOMATIC FUNCTION OF CHS-MATIC SERIES ORIGINATES FROM THE FOLLOWING DATA CONTROL PANEL TO WHICH AN I.C ELECTRONIC CIRCUIT IS ATTACHED ENERGIZED AUTOMATICALLY ALL THE FUNCTIONINGS OF SCRUB-STATION.

### Scope of Application

1. Operating theater for general surgeries.
2. OB/GY theater/Delivery rooms(bathing infants)
3. Operating theater for orthopedic surgeries.
4. Operating theater for neuro-surgeries.
5. Operating theater for ENT surgeries.
6. Other places in need of sterilized water.

### Features

1. All automatic deluxe scrub station.
2. Sterilized water (99.6%) supply - two U.V. water sterilizing lamps.
3. Hot water supply for four seasons.
4. Thorough filtering - prefilter and main filter.
5. Easy operation by knee - water and soap.
6. Water pressure control device.
7. Safe-dual temperature sensors for safety.
8. Rust-proof materials-all stainless steel (SUS304) and copper tubes.
9. Charming design.

### Basic Operations and Function

1. Heating
  - a. Hot water supply in winter.
  - b. Fast warming by one heater. (2KW)
  - c. Two safety thermo-switches to controll the in-creasing pressure of the warming tank.
  - d. Constant water temperature by safety thermo-switches.
2. Sterilization
  - a. The water can be sterilized to 99.6% (0.6T/H) by U.V. water sterilizing lamps.
  - b. The U.V. lamps are made of dual quart tubes for electrical safety.
  - c. Lamp use time can be read as life-timer is attached.
3. Filtering
  - a. Filtering to 10 $\mu$ m by pre-filter.
  - b. Filtering to 5 $\mu$ m by main-filter.
  - c. Thorough filtering by dual-filters.
  - d. Easy filter replacement.

RESULT OF TEST PERFORMANCE SHOWS THAT THE STERILIZATION CAPABILITY IS AN AVERAGE 99.6%.

Scrub-Station's sterilization performance test by the use of ultraviolet sterilization method.

#### 1. method

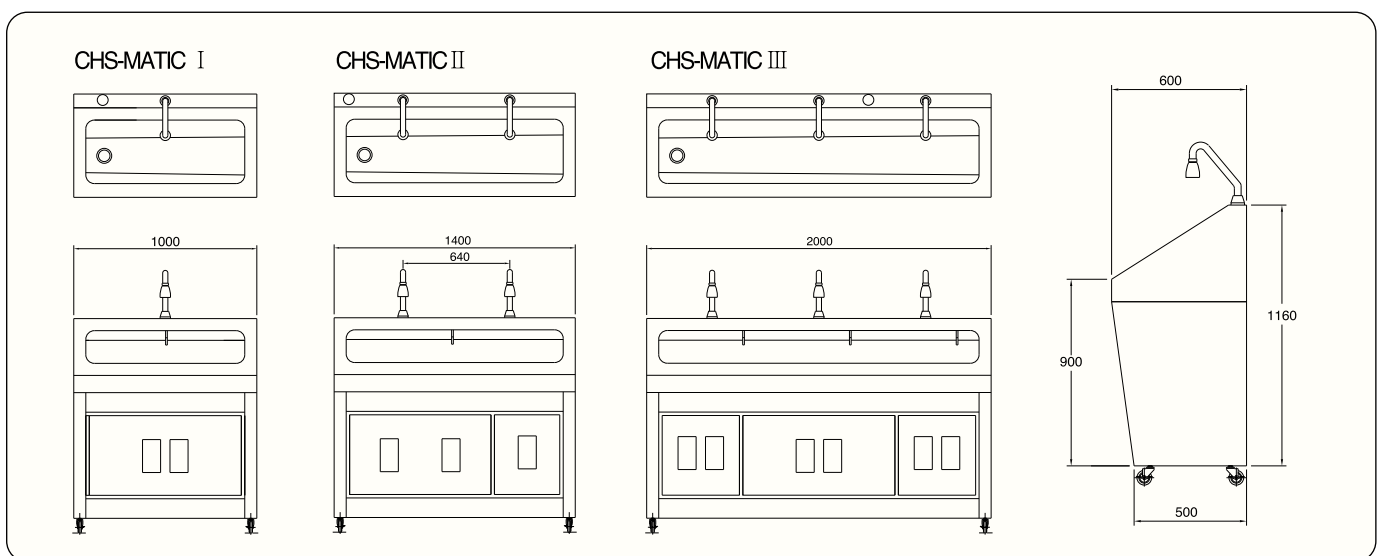
Germs Used for Tests	E.Coil, P.Aeruginasa, B.Subtilis.
Test Method	Numbers of germs are measured after diluted them into the refined water, while each germ of testing are collected more than 3 times from BHI Agarmodium under the state of 37°C and 2.4 Hrs.
	Samples of each germ passed through S.S. unit in the amount of 5 liter/mm and 10 liter/mm are collected into the sterilized vessel of each and conducted testing in accordance with the rule of membrane filtering method as prescribed in the Korean Medicine General Testing Procedures.

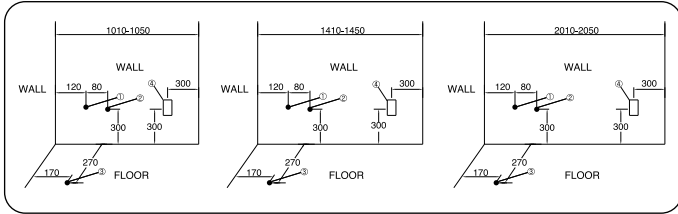
#### 2. Results

Germs, tested	Numbers of Germs before Passing thru S.S.	Numbers of Germs after Passed thru S.S.	Percentage of sterilized(%)	Residuals
E.Coli	$3.75 \times 10^5/m\ell$	$5/m\ell$	99.99	none
P.Aeruginasa	$3.75 \times 10^5/m\ell$	$0.4/m\ell$	100	none
B.Subtilis	$1.25 \times 10^4/m\ell$	$1.5 \times 10/m\ell$	98.8	none

3. Findings: • Average Sterilization Rate: 99.6%  
 • Superior in sterilization performance ability

## DIMENSIONS





## CONTROL PANEL FOR AUTOMATIC FUNCTIONS

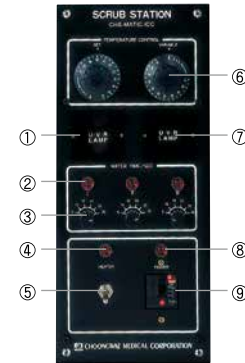
### PART'S NAME

- ① U.V.R. Lamp operation indicator
- ② Water timing lamp
- ③ Water time switch
- ④ Heater Lamp
- ⑤ Heater on/off switch
- ⑥ Temperature control switch
- ⑦ U.V.R. Lamp operation indicator
- ⑧ Power lamp
- ⑨ Power switch

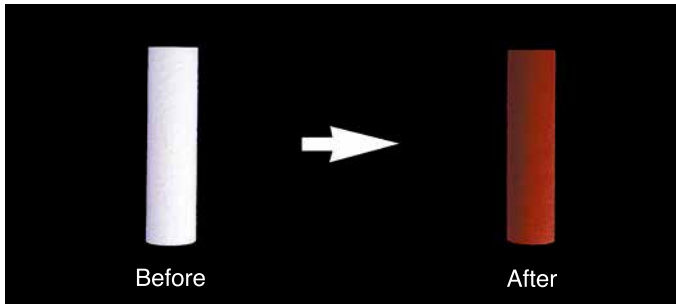
No.	Part's Name	Size	Q' ty	Remarks
1	Supply Pipe	15A	1	Hot Water
2	Supply Pipe	15A	1	Cold Water
3	Drain Pipe	65A	1	
4	Consent	110/220V	1	2.5Kw

### MATTERS TO BE NOTED

1. Please attach valve to supply pipe.
2. Capacity of breaker switch which is applied to the main switch is 30A
3. According to devices, for 3 persons - use, 2,000mm  
2 persons - use, 1,400mm  
1 persons - use, 1,000mm
4. Power source outlet of both for 3 - persons use,  
2 - person's and 1 - person's use are same.



### FILTRATION



## BRUSH DISPENSER CHS-BRS-D

### SPECIFICATIONS

Overall Size : W50mm × L120mm × H485mm  
Capacity : Brush 10ea, wall type  
Material : 1.0t stainless steel plate

### OPTIONAL ACCESSORIES

Hand Scrub Brush



### SPECIFICATION

Division	Model	CHS-MATIC I	CHS-MATIC II	CHS-MATIC III
Size(W × L × H)	mm	600 × 1,000 × 1,160	600 × 1,400 × 1,160	600 × 2,000 × 1,160
Soap Pump	ea	1(12V-18W)	1(12V-18W)	3(12V-18W)
Treatment		Germs removal by filtration		
Heater		2Kw × 1ea		
Water	°C	0~60		
Filter	ea	Pre-Filter 1, Main Filter 1		
Sterilizer		Ultra Violet Ray Flow-Sterilizing System(15W × 2ea)		
Water Supply	kg/cm <sup>2</sup>	Min. 1.0-Max.3.0		
Power Source	V	AC220V, 50/60Hz		
Power Consumption	Kw	2.5		
Tank Capacity	ℓ	Approx. 30		

OPTIONAL ACCESSORIES  
Mirror: 1 set

The specifications are subject to change without prior notice for improvement



### Manufactured by

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