

# What is Ultraviolet and How Does "Fabri-Technic" UV Sterilizer Work ?

**Fabri-Technic** employs a most unique, efficient and cost effective technique to rid water of bacteria, mold, virus and algae. This method, involves the latest Ultraviolet technology, disinfects without adding any chemicals to the water. It is ideal for many domestic and industrial applications. As shortwave radiation of 2537Å, generated from a germicidal UV lamp, penetrates the microorganisms and attacks their DNA structure, the cells can no longer reproduce and are rendered lifeless.

## What are the advantages of UV as disinfectant ?

- Effective** - All microorganisms are susceptible to ultraviolet disinfection.
- Economical** - Hundreds of gallon can be purified for each cent operating cost. Low equipment maintenance and low service costs.
- Fast** - No heating, cooling processes. Water is ready for use as soon as it leaves the purifier and no further contact time required.
- Automatic** - Provides continuous or intermittent disinfection without special attention or measurement.
- Safe** - No danger of overdosing, no addition of dangerous chemicals.
- Reliable** - None of water's physical or chemical properties like pH, color, taste, odor or healthy mineral contents are changed.
- No chemicals** - No corrosion problems and no risk of recontamination by residual chemicals ....
- Compact** - Accommodate big capacity of water flow with low pressure drop.
- Easy** - Simple installation and maintenance.
- Compatible** - Links to new or existing water system affordably.

### Selection Chart for various UV dosage

Models	Microwatts-sec/cm <sup>2</sup>	@30,000	@36,000	@39,000
MUV-30	l/s (GPM)	0.03 (0.5)	0.025 (0.42)	0.023 (0.38)
MUV-60	l/s (GPM)	0.06 (1)	0.05 (0.83)	0.046 (0.77)
MUV-100	l/s (GPM)	0.09 (1.5)	0.075 (1.25)	0.069 (1.15)
MUV-180	l/s (GPM)	0.19 (3)	0.16 (2.5)	0.15 (2.3)
MUV-600	l/s (GPM)	0.63 (10)	0.52 (8.3)	0.48 (7.7)
MUV-1200	l/s (GPM)	1.26 (20)	1.05 (16.7)	0.97 (15.4)
MUV-1200SP	l/s (GPM)	1.89 (30)	1.57 (25)	1.45 (23.1)
MUV-1500	l/s (GPM)	3.15 (50)	2.62 (41.7)	2.42 (38.5)
MUV-1750	l/s (GPM)	4.72 (75)	3.93 (62.5)	3.63 (57.7)
MUV-10000	l/s (GPM)	6.31 (100)	5.26 (83.3)	4.85 (76.9)
MUV-11000	l/s (GPM)	9.46 (150)	7.88 (125)	7.28 (115.4)
MUV-12000	l/s (GPM)	12.62 (200)	10.5 (166.7)	9.71 (153.8)
MUV-13000	l/s (GPM)	15.75 (250)	13.1 (208.3)	12.1 (192.3)

### Model for Syrup Sterilization 糖漿殺菌器

適用於處理黏性流質，如糖漿、蛋漿、醬汁等。備受亞洲各大小食品製造廠、汽水廠採用。

For sterilization of viscous liquid, e.g. syrup, egg paste, sauce, etc., installed at various food factories and soft drink bottling plants in many Asian countries.



**Syrup sterilizer**

Model FT44-8-48T/LS, 680 U.S. GPH

# FABRI-TECHNIC models ...



Model: MUV-30



Model: MUV-60



Model: MUV-100 / 180



Model: MUV-600

## Specifications / 規格說明

Model 型號		MUV-30	MUV-60	MUV-100	MUV-180	MUV-600
Maximum Capacity 最大流量	l/s (GPM)	0.03 (0.5)	0.06 (1)	0.09 (1.5)	0.19 (3)	0.63 (10)
Lamp Consumption 光管電量	W	6	8	20	20	40
Current Flow Rate 電流量	amp	0.15	0.15	0.35	0.35	0.5
In/Outlet Size 出入水	inch	3/8	3/8	3/8	3/8	1/2
Measurement (W x D x H) 體積	mm	330 x 140 x 260	180 x 140 x 350	300 x 160 x 510	310 x 160 x 620	310 x 155 x 1005
Weight 重量	kg	5	7	9	13	19



Model: MUV-1200 / 1200SP



Model: MUV-1500 / 1750 / 10000 / 11000 / 12000 / 13000\*\*

## Specifications / 規格說明

Model 型號		MUV-1200	MUV-1200SP	MUV-1500	MUV-1750	** Typical size, capacity and design is available as custom-made model.
Maximum Capacity 最大流量	l/s (GPM)	1.26 (20)	1.89 (30)	3.15 (50)	4.72 (75)	
Lamp Consumption 光管電量	W	80	120	120	180	
Current Flow Rate 電流量	amp	1.0	1.5	2.0	2.5	
In/Outlet Size 出入水	inch	3/4	1	1 1/2	2	
Measurement (W x D x H) 體積	mm	440 x 155 x 1030	490 x 155 x 1320	1220 x 250 x 460	1530 x 260 x 490	
Weight 重量	kg	26	32	50	70	

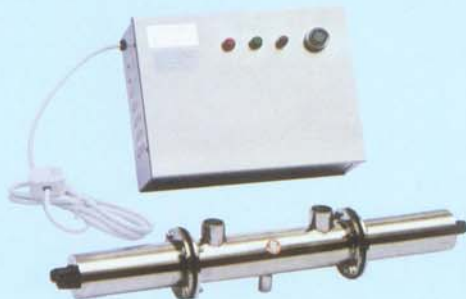
Model 型號		MUV-10000	MUV-11000	MUV-12000	MUV-13000	** 可應個別 體積，流量 及外型之要求 訂造特別 合適型號
Maximum Capacity 最大流量	l/s (GPM)	6.31 (100)	9.46 (150)	12.62 (200)	15.75 (250)	
Lamp Consumption 光管電量	W	240	360	480	600	
Current Flow Rate 電流量	amp	3.0	3.5	4.0	4.5	
In/Outlet Size 出入水	inch	3	3	3	4	
Measurement (W x D x H) 體積	mm	1530 x 290 x 520	1530 x 290 x 520	1530 x 290 x 520	1530 x 340 x 635	
Weight 重量	kg	62	72	82	102	

\*Specifications subject to change without prior notice.

## Models for Sea Water 水族型號

"飛達"紫外光海水殺菌器，殺死水中細菌，配合濾水器，淨化海水，防止海鮮被污染。紫外光殺菌缸選用316號不銹鋼製成，抗鹹耐用。配備分體式控制箱，安裝更具彈性，並配有指示燈及故障鳴響。

'Fabri-Technic' Ultra-violet Sea Water Sterilizer, can effectively destroy bacteria and when installed with proper filter, sea water is purified to prevent fishes from contamination. Stainless steel 316 sterilizing chamber is durable against corrosive sea water. Split-type control box can easily be installed and c/w signal lights and trouble buzzer.



UV-C3



UV-C10

### Specifications / 規格說明

Model 型號		UV-C3	UV-C10	Custom-made model of larger capacity is available by special order 歡迎訂購更大流量之訂造型號
Maximum Capacity 最大流量	l/s (GPM)	0.19 (3)	0.63 (10)	
Lamp Consumption 光管電量	W	20	40	
Current Flow Rate 電流量	amp	0.35	0.5	
In/Outlet Size 出入水	inch	3/4	3/4	
Measurement 體積	mm			
- Sterilizing Chamber 殺菌缸	(L x φ)	590 x 130	1060 x 130	
- Control Box 控制箱	(W x D x H)	310 x 120 x 230	310 x 120 x 230	
Weight 重量	kg	2	4	

#### Information:

##### 1. STERILIZING CHAMBER

- constructed of 304 stainless steel and precision welded as a single unit;
- tested up to 200 P.S.I. to ensure a leak-free system.

##### 2. WORKING PRESSURE

- recommended not to exceed 100 P.S.I.

##### 3. PRESSURE DROP

- ranging from 2-5 P.S.I. depending on unit.

##### 4. ULTRA-VIOLET EXPOSURE

- average exceeding 30,000 microwatt sec/cm<sup>2</sup>.

##### 5. ULTRA-VIOLET LAMPS DURATION

- models 30 & 60 : 4,000 hours of continuous operation
- other models : 9,000 hours of continuous operation

##### 6. ELECTRICAL SUPPLY

- 220 Volts 50 Hz for standard models.

##### 7. FEATURES

- safety shut-off solenoid valve, fail-safe deactivation system, and filter are standard on models SUV-30 through SUV-600.

##### 8. OPTIONS:

- BMS relay contact
- Ultra UV exposure
- Ultra flow capacity
- Flange connection
- % intensity UV meter

#### 產品資料:

##### 1. 殺菌缸

- 以304不銹鋼焊接為一組機身
- 防漏測試受壓至200 P.S.I.

##### 2. 工作壓力

- 建議不可高於100 P.S.I.

##### 3. 壓力降

- 約2-5 P.S.I. 視乎個別型號

##### 4. 紫外光放射量

- 平均超過30,000 microwatt sec/cm<sup>2</sup>

##### 5. 紫外光管效能

- 型號30 & 60 : 4,000 小時連續使用
- 其他型號 : 9,000 小時連續使用

##### 6. 電源

- 220 Volts 50 Hz

##### 7. 設備

- SUV30 至 SUV600 型具備安全關水閥，停電截水及過濾器

##### 8. 其他可供設備:

- BMS 開關接線
- 高紫外光放射量設計
- 高流量設計
- 法蘭接口
- % 放射量UV錶



Since 1973

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# FABRI-TECHNIC models ...



Model: SUV-30



Model: SUV-60 / 100 / 180



Model: SUV-600

## Specifications / 規格說明

Model 型號		SUV-30	SUV-60	SUV-100	SUV-180	SUV-600
Maximum Capacity 最大流量	l/s (GPM)	0.03 (0.5)	0.06 (1)	0.09 (1.5)	0.19 (3)	0.63 (10)
Lamp Consumption 光管電量	W	6	8	20	20	40
Current Flow Rate 電流量	amp	0.15	0.15	0.35	0.35	0.5
In/Outlet Size 出入水	inch	3/8	3/8	3/8	3/8	1/2
Measurement (W x D x H) 體積	mm	330 x 140 x 260	310 x 140 x 350	430 x 160 x 510	470 x 160 x 620	420 x 155 x 1005
Weight 重量	kg	5	7	9	13	19

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**Ultraviolet Energy Levels at 2537 Angstrom Units Wavelength  
Required for 99.9% Destruction of Various Microorganisms  
UV Energy in Microwatt-seconds per Square Centimeter**

## Information:

### 1. STERILIZING CHAMBER

- constructed of 304 stainless steel and precision welded as a single unit;
- tested up to 200 P.S.I. to ensure a leak-free system.

### 2. WORKING PRESSURE

- recommended not to exceed 100 P.S.I.

### 3. PRESSURE DROP

- ranging from 2-5 P.S.I. depending on unit.

### 4. ULTRA-VIOLET EXPOSURE

- average exceeding 30,000 microwatt sec/cm<sup>2</sup>.

### 5. ULTRA-VIOLET LAMPS DURATION

- models 30 & 60 : 4,000 hours of continuous operation
- other models : 9,000 hours of continuous operation

### 6. ELECTRICAL SUPPLY

- 220 Volts 50 Hz for standard models.

### 7. FEATURES

- safety shut-off solenoid valve, fail-safe deactivation system, and filter are standard on models SUV-30 through SUV-600.

## 產品資料:

### 1. 殺菌缸

- 以304不銹鋼焊接為一組機身
- 防漏測試受壓至200 P.S.I.

### 2. 工作壓力

- 建議不可高於100 P.S.I.

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- 約2-5 P.S.I., 視乎個別型號

### 4. 紫外光放射量

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