

Since 1973

## **FABRI-TECHNIC Ultraviolet Sterilizer MUV Series**

[www.fabri-technic.com](http://www.fabri-technic.com)



## History of FABRI-TECHNIC Ultraviolet Sterilizer

Fabri-Technic Engineering and Trading Co., Ltd. has started its water treatment business since 1973.

We are specializing in the manufacturing of ultra-violet sterilizers for eliminating bacteria and viruses in water and air. Ultraviolet Disinfection system is ideal for many commercial and industrial applications, it disinfects without chemicals, i.e. will not alter the properties of the disinfected material.

Over the years, we delivered our UV systems to many reputable customers in Hong Kong as well as overseas including Singapore, Dubai, Thailand, The Philippines, Vietnam, China and Macau. We design and manufacture custom-built systems, uniquely catered to your requirements, budget and schedule.

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

Fabri-Technic UV Sterilizers employ an efficient and cost effective technique to rid water of bacteria, mould, virus and algae. This method, involves the Ultraviolet technology, disinfects without adding any chemicals to the water. It is ideal for many domestic and industrial applications. The shortwave radiation of  $2537\text{\AA}$ , generated from a germicidal UV lamp, penetrates the microorganisms and attacks their DNA structure. The cells can no longer reproduce and rendered lifeless.

## What are the advantages of UV as disinfection system?

### ■ Effective

All microorganisms, including chlorine-resistant species such as *Cryptosporidium parvum*, are susceptible to ultraviolet disinfection.

### ■ Economical

Hundreds of gallon can be purified for minimal operating cost. Low equipment maintenance and low service costs.

### ■ Fast

Water is ready for use as soon as it leaves the purifier.

### ■ Automatic

Provides continuous disinfection without special attention.

### ■ Safe

No danger of overdosing or adding of dangerous chemicals.

### ■ Reliable

None of water's physical or chemical properties like pH, color, taste, odor or healthy mineral contents are altered.

### ■ No residual chemicals

No corrosion problems and risk of recontamination by residual chemicals.

### ■ Compact

Accommodate big capacity of water flow with low pressure drop.

### ■ Easy

Simple installation and maintenance.

### ■ Compatible

Can be easily fitted to new or existing water treatment facilities.

**Ultraviolet Energy Levels at 2537 Angstrom Units Wavelength is Required for 99.9% Destruction of Various Microorganisms**

**UV Energy in Microwatt-seconds per Square Centimeter**



### Operation Conditions:

#### 1. Working Pressure

recommended not to exceed 100 p.s.i.

#### 2. Pressure Drop

ranging from 2 – 5 p.s.i. depending on model.

#### 3. Electricity Supply

220 Volts 50 Hz for standard models.

#### 4. Ultra-violet Exposure

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

### 操作條件:

#### 1. 工作壓力

建議不可高於100 p.s.i.

#### 2. 壓力降

約2 – 5 p.s.i., 視乎個別型號。

#### 3. 電源

220 Volts 50 Hz

#### 4. 紫外光放射量

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

### Features:

#### 1. Sterilizing Chamber

- Constructed of 304 stainless steel and precision welded as a single unit.

#### 2. Ultra-violet Lamps Durability

- 9,000 hours of continuous operation.

#### 3. Safety Devices

- built-in safety shut-off solenoid valve and fail-safe deactivation system

#### 4. Additional Features Available

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

### 產品備有:

#### 1. 殺菌缸

- 以304不鏽鋼焊接為一組機身

#### 2. 紫外光管效能

- 9,000 小時連續使用

#### 3. 安全設備














- 內置安全關水閥及停電截水設備

#### 4. 可後加額外功能

- 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



## MUV Series Specification

Model 型號	Maximum Capacity 最大流量		Lamp Energy Consumption UV光管用電量	Current Flow Rate 電流	Water Inlet / Outlet 出入口	Dimension 尺寸	Net Weight 淨重
	L/s 升/秒	GPM 加侖/分鐘	Watt 瓦特	Ampere 安培	Inch 吋	mm 毫米	KG 公斤
 MUV-30	0.03	0.5	6	0.15	3/8	330 (W) x 140 (D) x 260 (H) mm	5
 MUV-60	0.06	1	8	0.15	3/8	280 (W) x 150 (D) x 360 (H) mm	7
 MUV-100E	0.09	1.5	20	0.35	3/8	300 (W) x 160 (D) x 510 (H) mm	8
 MUV-180E	0.19	3	20	0.35	3/8	310 (W) x 160 (D) x 620 (H) mm	12
 MUV-600E	0.63	10	40	0.5	1/2	310 (W) x 155 (D) x 1005 (H) mm	15
 MUV-1200E	1.26	20	80	1.00	3/4	440 (W) x 155 (D) x 1030 (H) mm	18
 MUV-1200ESP	1.89	30	120	1.50	1	490 (W) x 155 (D) x 1320 (H) mm	24
 MUV-1500E	3.15	50	120	2.00	1 1/2	1220 (W) x 250 (D) x 460 (H) mm	38
 MUV-1750E	4.72	75	180	2.50	2	1530 (W) x 260 (D) x 490 (H) mm	58
 MUV-10000E	6.31	100	240	3.00	3	1530 (W) x 290 (D) x 520 (H) mm	46
 MUV-11000E	9.46	150	360	3.50	3	1530 (W) x 290 (D) x 520 (H) mm	48
 MUV-12000E	12.62	200	480	4.00	3	1530 (W) x 290 (D) x 520 (H) mm	50
 MUV-13000E	15.75	250	600	4.50	4	1530 (W) x 340 (D) x 635 (H) mm	62

Non-standard model of various sizes, capacities and designs can be custom-made. 可應個別體積、流量及外型等要求訂製合適型號。

\* Fabri-Technic reserves the right to change product specifications without prior notice. 產品規格變動，恕不另行通知。



**Fabri-Technic Engineering & Trading Co. Ltd.**

**飛達工程貿易有限公司**

17/F., Wing Wah Ind. Bldg., 677 King's Road, North Point, Hong Kong

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Tel: (852) 2815 8388 Fax: (852) 2815 3223 www.fabri-technic.com