

Guangzhou Taobo M.&E Equipment Co., Ltd.

TB-UV

系列
SERIES

紫外线消毒器

Ultraviolet sterilizer



TB-UV-1

设备介绍 / Equipment Introduction

紫外线消毒器，其优点为辐照强度稳定性高，杀菌寿命长达9000小时，高透过率石英玻璃管，透光率 $\geq 87\%$ ，单价也比同类产品适中，杀菌寿命达8000小时后，其辐照强度在253.7um保持稳定不变，比国内同类产品辐照强度稳定不变。灯管破碎有声光报警提醒。高亮度镜面灭菌反应腔设计。与国外同类产品相比杀菌强度提高了18%—27%，杀菌率能够达到99.99%。

紫外线消毒器主体内外均采用304L或316L不锈钢材质，主体内外部抛光处理以加强紫外线辐照度，确保被消毒物在消毒灭菌过程中不会有消毒灭菌不完全的情形出现。

人们利用紫外线杀菌原理把医院的专业杀菌消毒技术又引入了日常生活的杀菌消毒领域，这种应用在日常生活中的室内、家居、车载、冰箱杀菌器和工业用杀菌器都是利用高频C波段紫外线在20秒至1分钟内对各种微生物的DNA产生破坏作用，能够杀死99%的细菌和病毒，包括：流感、肝炎病毒、大肠杆菌、金黄葡萄球菌、枯草杆菌黑色变种芽孢及多种霉菌、过敏源，给人群提供安全的衣食住行环境，特别适用于餐具、个人和公共物品、玩具以及其他物品的表面快速消毒、除臭除味、清新空气等。

The advantages of the ultraviolet sterilizer include high stability of irradiation intensity, 9000h sterilization life, high transmittance quartz glass tube with a light transmittance $\geq 87\%$, and moderate unit price as compared to similar products. After the sterilization life reaches 8000h, its irradiation intensity remains stable at 253.7um, which is more stable in irradiation intensity as compared to similar domestic products. The sound-light alarm is enabled when the modulator tube is broken. The high light mirror sterilization reaction chamber design makes the sterilization intensity 18%–27% higher than similar foreign products. The sterilizing rate is able to reach 99.99%.

Both the inside and the outside of the main body of the ultraviolet sterilizer are made of 304L or 316L stainless steel. They are polished to reinforce UV light irradiance and ensure no incomplete sterilization of the sterilized objects.

The professional sterilization technology in hospitals is introduced to the sterilization in daily life under the UV sterilization principle. This application uses the damage of high frequency C-band UV light to the DNA of various microorganisms within 20–60s on indoor environment, home, vehicle, refrigerator sterilizer and industrial sterilizer. It is able to kill 99% bacteria and viruses, including: flue, hepatitis virus, e-coli, staphylococcus aureus, spores of bacillus subtilis var niger and various mildew sources and allergens, bringing people safe environment of basic necessities. It is particularly suitable for the quick surface sterilization, deodorization and air refreshing, etc. on tableware, personal and public goods, toys and other objects.

性能优势 / Performance advantage

◆ 能迅速有效地杀灭各种细菌、病毒等微生物；

It is capable of quickly and effectively killing various bacteria, viruses and other microorganisms;

◆ 通过光解作用，能有效降解水中的氯化物；

It can effectively degrade the chlorides in water through photolysis;

◆ 操作简单，维护方便；

It is easy to operate and convenience to maintain;

◆ 占地面积小，处理水量大；

The floor area is small and water treatment is large;

◆ 无污染，环保性强，不会产生毒副作用；

It is pollution free, highly environmental and without toxic or side effect;

◆ 投资成本低，运行费用低，设备安装方便；

The investment cost is low, the running cost is low and it is convenient to install;

◆ 利用光学原理设计了独特的内壁处理工艺，使腔体内得以最大限度地利用紫外线，使杀菌效果成倍提高。

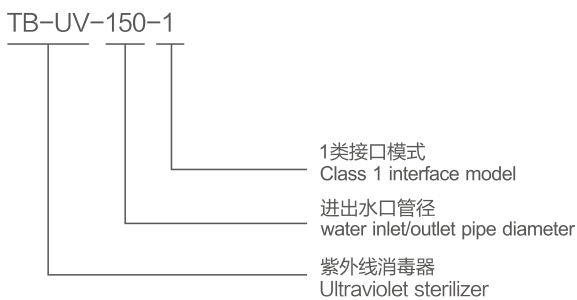
The unique lining treatment process is designed based on principles of optics to use UV light in the chamber to the maximum, enhancing the sterilization effect by multiple times.

> 应用 / Application

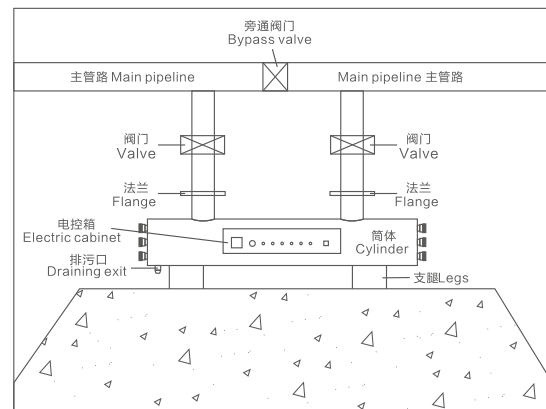
- ◆ 海水、淡水育苗养殖（鱼、鳗、虾、贝壳类等）用水消毒。
Sterilization of seawater and water for freshwater aquaculture (fish, eel, shrimp and shellfish, etc.)
- ◆ 食品加工工业水体消毒，包括果汁、牛奶、饮料、啤酒、食用油及各类罐头、冷饮制品等用水设备。
Sterilization of industrial water for food processing, including juice, milk, beverage, beer, edible oil and various cans, cold drinks and other water consuming equipment.
- ◆ 医院、各类实验室用水消毒及高含量致病体废水消毒。
Sterilization of water for hospitals and laboratories as well as sterilization of wastewater with high pathogen content.

- ◆ 生活用水消毒，包括居民住宅小区、办公大楼、自来水厂、旅馆餐厅等。
Domestic water sterilization, including residential communities, office buildings, tap water plants, hotels and restaurants, etc.
- ◆ 生物化学制药，化妆品生产用冷却水消毒。
Sterilization of cooling water for biochemical pharmaceutical and cosmetic manufacturing.
- ◆ 游泳池、水上娱乐设施用水消毒。
Sterilization of water for swimming pools and waterborne recreational facilities.

> 设备型号意义说明 Introduction of equipment models



> 安装示意图 / Schematic diagram



> 选型资料表 / Model selection data sheet

设备型号 Equipment model	设备规格 Equipment specification	进出水口 Water inlet/outlet	灯管只数*单只功率 number of modulator tubes single power	机箱类型 Case type	材质 Texture
TB-UV-150-1	φ 219 * L1200 mm	DN150 (PN10)	6支 * 100 W	一体式	SUS304
TB-UV-200-1	φ 273 * L1200 mm	DN200 (PN16)	10支 * 100 W	一体式	SUS304
TB-UV-250-1	φ 325 * L1200 mm	DN250 (PN16)	16支 * 100 W	一体式	SUS304
TB-UV-300-1	φ 377 * L1600 mm	DN300 (PN16)	16支 * 150 W	分体式	SUS304
TB-UV-350-1	φ 426 * L1600 mm	DN350 (PN16)	16支 * 150 W	分体式	SUS304
TB-UV-150-2	φ 219 * L1200 mm	DN150 (PN10)	6支 * 100 W	一体式	SUS304
TB-UV-200-2	φ 273 * L1200 mm	DN200 (PN16)	10支 * 100 W	一体式	SUS304
TB-UV-250-2	φ 325 * L1200 mm	DN250 (PN16)	16支 * 100 W	一体式	SUS304
TB-UV-300-2	φ 377 * L1600 mm	DN300 (PN16)	16支 * 150 W	分体式	SUS304
TB-UV-350-2	φ 426 * L1600 mm	DN350 (PN16)	16支 * 150 W	分体式	SUS304
TB-UV-150-3	φ 219 * L1200 mm	DN150 (PN10)	6支 * 100 W	一体式	SUS304
TB-UV-200-3	φ 273 * L1200 mm	DN200 (PN16)	10支 * 100 W	一体式	SUS304
TB-UV-250-3	φ 325 * L1200 mm	DN250 (PN16)	16支 * 100 W	一体式	SUS304
TB-UV-300-3	φ 377 * L1600 mm	DN300 (PN16)	16支 * 150 W	分体式	SUS304
TB-UV-350-3	φ 426 * L1600 mm	DN350 (PN16)	16支 * 150 W	分体式	SUS304



TB-UV-2



TB-UV-3