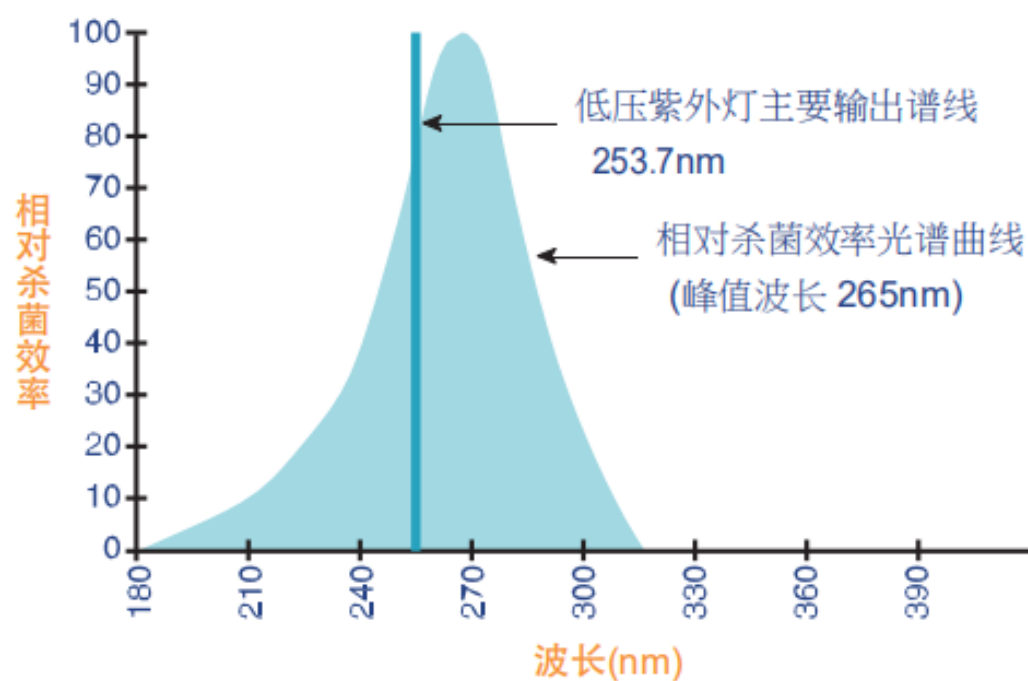
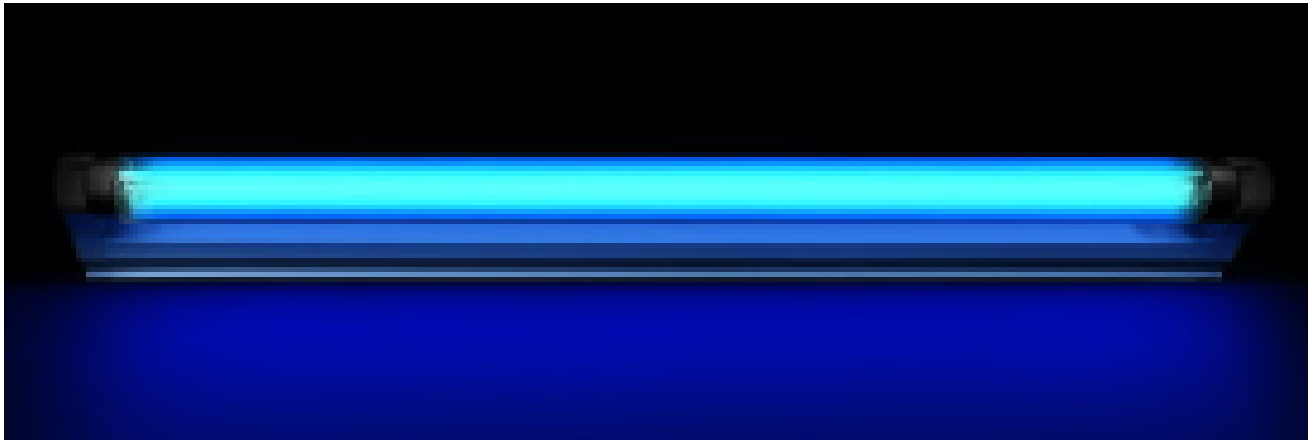


UVC Sterilization Lamp

Summary

Light source of UVC is used for professional water and air disinfection. This disrupts the DNA structure and either kills it or renders it unable to reproduce which can be killed within 5- 10 minutes - and therefore harmless and effective.



Report



中国预防医学科学院消毒检测中心

(98)量认(国)字(S1795)号

检测报告

国家技术监督局

样品受理编号20170101

第4页 共6页

样品名称: 飞利浦牌紫外线杀菌灯管 接样日期: 2017年1月7日
检测项目: 定量杀灭大肠杆菌 完成日期: 2017年2月10日

一、器材

- 菌株: 大肠杆菌 8099 (5-6代)
- 飞利浦牌紫外线杀菌灯测试强度为 $90.55 \mu\text{W}/\text{cm}^2$ (批号 2016.1.25)
- 稀释液: 1% 蛋白胨的 0.03mol/L PBS (pH 7.2);
0.1%吐温80的 0.03mol/L PBS (pH 7.2);
- 普通营养琼脂培养基 (卫生部生物制品检定所)
- 载体: 玻片 $1\text{cm} \times 1\text{cm}$

二、方法

- 环境条件: 温度为 $20-22^\circ\text{C}$ 、相对湿度为 40-44%、开启紫外线杀菌灯 10min 后测试。
- 按《消毒技术规范》(第三版) 第一分册 8.4.4 项进行试验。
- 作用时间为 3min、5min、10min 和 20min, 染菌玻片距灯管正中垂直距离 1m 的中心处照射, 辐射强度为 $90.55 \mu\text{W}/\text{cm}^2$, 试验重复三次。

三、结果

经三次重复试验结果表明, 飞利浦牌紫外线杀菌灯辐照距离为 1m, 辐照强度为 $90.55 \mu\text{W}/\text{cm}^2$ 作用 3min、5min、10min 和 20min, 对大肠杆菌的平均杀灭率分别为 99.96%、99.99%、99.99% 和 100% (表)。

表 紫外线灯辐照强度对大肠杆菌的杀灭效果

$(\mu\text{W}/\text{cm}^2)$	作用不同时间 (min) 的平均杀灭率及范围 (%)				平均对照菌数及范围 $\times 10^4$ (cfu/片)
	3	5	10	20	
99.96	99.96	99.99	99.99	100	1.35
90.55	(99.94-99.97)	(99.98-99.99)	(99.99-100)	(100-100)	(1.23-1.54)

注: 另设对照组无菌生长。

四、结论

飞利浦牌紫外线杀菌灯辐照距离为 1m, 辐射强度为 $90.55 \mu\text{W}/\text{cm}^2$ 时, 作用 3min、5min、10 和 20min, 对大肠杆菌的平均杀灭率分别为 99.96%、99.99%、99.99% 和 100%。

法定代表人(或授权的技术负责人)

最终审核日期 2017 年 2 月 19 日



Characteristic:

- Short wavelength in the range 200 and 275nm its peak value is 253.7 nm which the sterilization rate is more than **99.9%**
- Protecting the inner layer ensures that the UVC output of the light source is almost constant throughout its life cycle
- Physical sterilization, environmentally friendly, no need to contact or store any hazardous chemicals
- Rapid sterilization
- Ozone-free(Study shows Ozone is produced with light energy ($< 185\text{nm}$ wavelength). The UVC sterilization lamp radiates 200 - 275 nm wavelength of light.)

UVC Sterilization Lamp Installed In Purifier

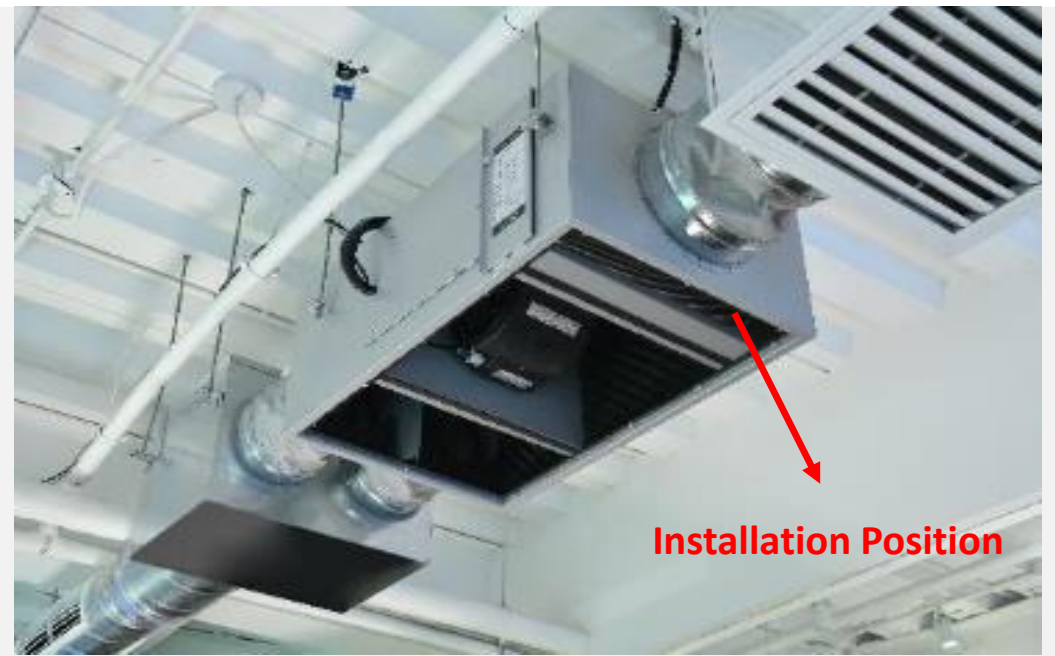
What is **PURE-QI™** ?



Pure-Qi™ is a unique, high efficiency patented in-ceiling air cleaner with multiple modular functions for tackling various pollutions.

Principle:

The UVC sterilization lamp is installed in the return air box of the air purifier. While the air purifier is working, the control panel supplies power to the UVC sterilization lamp, killing the bacteria entering the air at the return air side and adsorbed on the filter. TO prevent the consumption of filter, the control panel will turn off the UVC sterilization lamp. At the same time UVC sterilization can be controlled by ECS system.



Characteristic:

- Physical sterilization
- High efficiency
- Non-pollution
- Long life about 9000 hours
- Easy to maintance, clean UVC sterilization lamp per 2 - 3 month, change every year
- Don't affect the daily work

UVC Sterilization Lamp Installed In Air Conditioning Box

Principle:

The UVC sterilization lamp is installed in the air return box of the air conditioning box. When the air conditioning box is working, it supplies power to the UVC sterilization lamp to kill bacteria that the air entering the air side and adsorbing on the filter net.

Characteristic:

- Physical sterilization
- High efficiency
- Non-pollution
- Long life about 9000 hours
- Easy to maintance, clean UVC sterilization lamp per 2 - 3 month, change every year
- Don't affect the daily work

Notes: Because of the use of UVC sterilization lamp, the consumption of filters installed in the air conditioning box will increase. The filter change rate will frequently than the one don't install.



About Us:

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