



除烟宝

CrystalVent

香港設計『除烟宝』静电除油烟机
Hong Kong Designed CrystalVent
Electrostatic Precipitator

静电除油烟机
Electrostatic Precipitator



罩式设计

具经济效益

占用较少空间

容易操作及清理

可长时间保持高除油烟效率

Hood Type Design

Cost Effectiveness

Minimal Space

Easy Operation & Cleaning

Maintain High Sustained Oil Mist Removal Efficiency

Model 型号 BS-266

酒楼食肆厨房排放的油烟问题

酒楼食肆厨房排放的油烟，对周围的环境构成污染，亦可对附近的居民造成滋扰，这些往往是很多人投诉的问题。目前，一般食肆所使用的运水烟罩、水濂柜及旧式的静电除油烟机，都不能有效地处理油烟。原因是运水烟罩及水濂柜采用喷淋水洗方式不能有效捕集细小的油粒，除油烟效率并不理想，其喷嘴亦很易闭塞，因此需经常清洗喷嘴及添加洗涤液。而旧式静电除油烟机采用「钢丝收集板」设计，利用高压静电场将油粒收集，但当油粒积累在收集板后，便很快引起电场放电，丧失除油烟效果；因此，旧式静电除油烟机必须频频清洗，否则效用便会迅速下降。此外，旧式静电除油烟机采用管道式设计，一般安装于厨房天花或食肆外的空间；若安装于厨房天花，维修清洗十分困难，而安装于食肆外又大多因为占用食肆外的空间而需要大业主的允许，手续繁复。

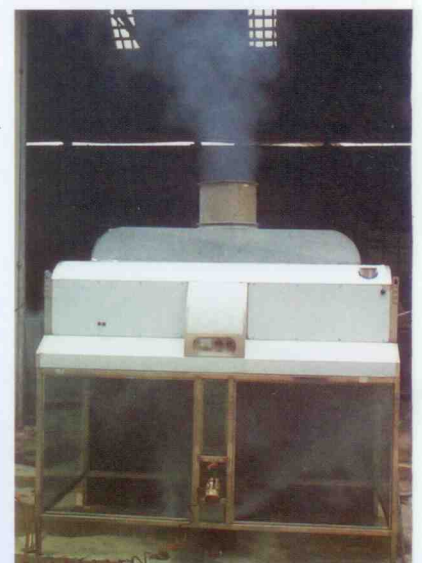
彻底解决方案 - 先进「除烟宝」静电除油烟机

香港生产力促进局与中国内地专家共同研究开发先进『除烟宝』静电除油烟机，有效地清除食肆排放的油烟，能长时间保持其高除油烟效率，以及便于维修清理。

先进『除烟宝』是新一代的静电除油烟机，它具有以下的优胜功能：

- (一) 采用「圆筒形蜂巢式」的静电场设计及喷淋装置，使油粒能被水珠带走而不累积在收集筒上，能长时间保持除油烟效率超过百分之九十五及延长清洗周期达两个月。(旧式静电除油烟机需要每星期清洗1-2次以保持除油烟效率。)
- (二) 采用罩式设计，因此可直接安装在炉具上，毋须占用食肆外空间，亦可节省厨房空间。
- (三) 采用组合式设计，主要配件可轻易地拆除下来，便于清洗及维修。
- (四) 经处理后的废气可低位排放。
- (五) 产品拥有安全规格认证，保证安全可靠，用得放心。

『除烟宝』已协助香港二百多间酒楼食肆彻底解决油烟问题，并符合环保标准，令食肆保持其竞争优势。本机构不单提供标准型号的『除烟宝』，亦可以根据个别客户的要求，度身订造『除烟宝』静电除油烟机。

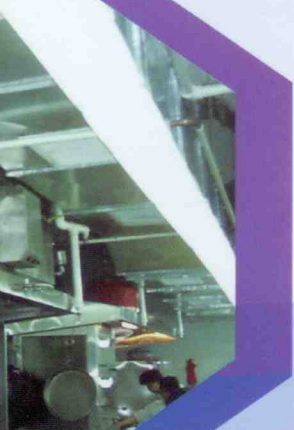


未启动除烟宝前的油烟排放情况
Oil mist emission - CrystalVent
is turned off

Advanced cylindrical
honeycomb design of the
electric field

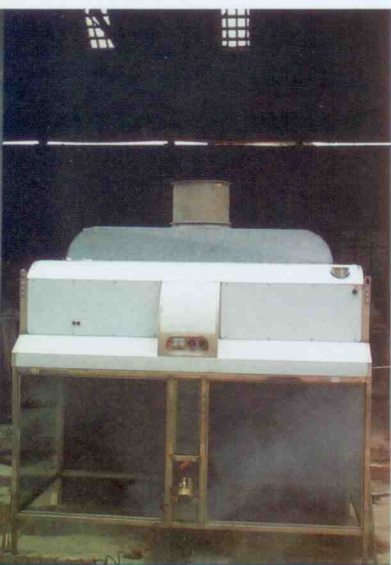


采用「圆筒形蜂巢式
的静电场设计」



除烟宝应用于中
式酒楼食肆的实例

Application of
CrystalVent in a
Chinese restaurant



启动除烟宝后的油烟排放情况
Oil mist emission - CrystalVent
is turned on

The Problem of Oil Mist Exhaust from Restaurant Kitchen

Restaurant kitchen exhaust often contains oil mist. It usually creates air pollution to the environment and nuisances to the nearby residents that is a frequent target of complaint. At present, water spray hoods, air washers and traditional electrostatic precipitators (EPs) are usually used to reduce oil mist. These types of equipment are simply ineffective. Spray hoods and washers using water spray cannot intercept the fine oil mists effectively. The nozzles also easily get clogged. So the nozzles should be cleaned and the scrubbers should be replenished frequently. Traditional EPs use plate-and-wire high voltage electric field design to collect oil mist, which when accumulated on the collection plates can quickly cause electric discharge and the performance of the EP will drop. Laborious and very frequent cleaning is required. Besides, traditional EPs are in-line duct-type design and have to be installed in the ceiling of the kitchen or in open areas outside the restaurants. Maintenance will be very difficult when EPs are installed in the ceiling while it is often cumbersome to get landlord's permission to install the EP in open areas outside the restaurants.

The Best Solution – Advanced “CrystalVent” Electrostatic Precipitator

Hong Kong Productivity Council (HKPC) in collaboration with experts in China have developed the advanced “CrystalVent” electrostatic precipitator to effectively remove oil mist from kitchen exhaust with high sustained efficiency and ease of maintenance.

Advanced “CrystalVent” is a new generation of electrostatic precipitator and has the following benefits:-

1. It makes use of advanced cylindrical honeycomb design of the electric field incorporated with water spray thus eliminating the accumulation of oil mist on the collection plates and ensuring over 95% oil mists removal efficiency sustained over a long period. The cleaning cycle can be prolonged to two months. (Traditional EPs need to be cleaned one to two times every week to maintain the efficiency.)
2. With exhaust hood design type, the CrystalVent can be installed directly above the cooking stoves. There is no need to install it outside the restaurant and it also saves the kitchen space.
3. With modular design, all major components can be removed easily for maintenance and cleaning.
4. Low level discharge is applicable
5. The product has obtained certificate of safety conformity to ensure its safety and reliability

“CrystalVent” has helped over 200 restaurants in Hong Kong to solve the oil mist problem and comply with environmental standards, thereby enhancing its competitiveness of the restaurants. Apart from our standard CrystalVent model, we can also offer tailor-made design to suit the requirements of different applications.

『除烟宝』的规格 (BS-266型号)

除油烟效率	超过百分之九十五的油烟，出风口不容易察觉有油烟排放
选用物料	全不锈钢
设计风量	每小时4000立方米
输入功率	1,000瓦特 (静电场) + 350瓦特 (水泵)
水量流量	每小时少于0.1立方米 (间歇性操作)
所需电源	AC 220/1/50 (220伏特、单相、50赫)
风阻	80帕斯卡
尺寸	2000 x 1150 x 730毫米 (长、阔、高)
净重	250公斤

Specifications of "CrystalVent" (Model: BS-266)

Oil mist removal efficiency	>95% with effectively no visible emission at the exhaust outlet
Materials of construction	Stainless steel
Design air flow rate	4000 m ³ /hr
Power input	1,000W (ionizer) + 350W (water pump)
Water flow rate	< 0.1 m ³ /hr, operated intermittently
Power supply	AC 220/1/50 (220V, single phase, 50Hz)
Pressure drop	80 Pa
Dimension	2000 x 1150 x 730 mm (L x W x H)
New weight	250 kg

For any further enquiry,
please contact us at 2635 2268

