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CrystalVent

運水式靜電除油煙機
Electrostatic Precipitator with
Continuous Water Spray

除煙寶 運水式靜電除油煙機

CrystalVent Electrostatic Precipitator with
Continuous Water Spray



Model 型號 BS266LL

- 全自動清洗 *Fully Auto Cleaning*
- 罩式設計 *Hood Type Design*
- 容易操作 *Easy Operation*
- 具經濟效益 *Cost Effectiveness*
- 可長時間保持高除油煙效率
Maintain High Sustained Oil Mist Removal Efficiency

酒樓食肆廚房排放的油煙問題

酒樓食肆廚房排放的油煙，不但構成環境污染，亦可對鄰近的居民造成滋擾，這些往往是很多人投訴的問題。目前，一般食肆所使用的運水煙罩、水濺櫃及舊式的靜電除油煙機，都不能有效地處理油煙。原因是運水煙罩及水濺櫃採用噴淋水洗方式不能有效捕集細小的油粒，除油煙效率並不理想。而舊式靜電除油煙機採用「網絲收集板」設計，利用高壓靜電場將油粒收集，但當油

粒積累在收集板後，便很快引起電場放電，喪失除油煙效果；因此，舊式靜電除油煙機必須頻頻清洗，否則效用便會迅速下降。此外，舊式靜電除油煙機採用管道式設計，一般安裝於廚房天花或食肆外的空間；若安裝於廚房天花，維修清洗十分困難，而安裝於食肆外又大多因為佔用食肆外的空間而需要大業主的允許，手續繁複。



除煙寶應用於中式酒樓食肆的實例 Application of CrystalVent in a Chinese restaurant

徹底解決方案 - 新改良型號的『除煙寶』運水式靜電除油煙機

新改良型號的『除煙寶』運水式靜電除油煙機，利用運水煙罩技術與嶄新的靜電除油煙技術互相配合，具有高除油煙效率及全自動清洗，減省人手清洗機組的優點。

新改良型號的『除煙寶』具有以下優勝功能：

- 採用「圓筒形蜂巢式」的靜電場設計及連續運水噴淋裝置，可以清除超過百分之九十五的油煙。
- 設有全自動清洗靜電集油筒裝置功能，使裝置可長時間保持高除油煙效率而無需人手經常清洗機組，因而可節省時間和維修費用。
- 採用罩式設計，可直接安裝在爐具上，毋須佔用食肆外空間。
- 收集及循環用水，保持低用水量。

- 內置智能的微電腦控制器，操作簡單並指示明瞭。
- 經處理後的廢氣可低位排放。
- 一個控制櫃可接駁多至四個除油煙罩。
- 組合式設計，主要配件可輕易地拆除下來，便於維修或更換。
- 產品擁有國際安全規格認證，保證安全可靠，用得放心。

新改良型號的『除煙寶』運水式靜電除油煙機能協助酒樓食肆徹底解決油煙問題，並符合環保標準。本局不單提供標準型號的『除煙寶』，亦可以根據個別客戶的要求，度身訂造『除煙寶』除油煙機。

The Problem of Oil Mist Exhaust from Restaurant Kitchen

Restaurant kitchen exhaust usually creates air pollution to the environment and nuisances to the nearby residents and 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. 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.

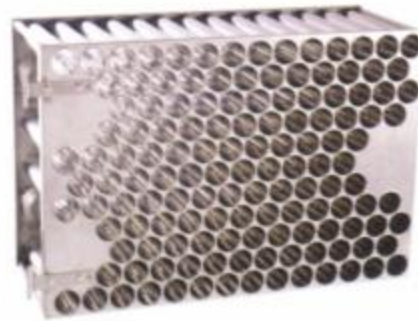
The Best Solution – New Advanced “CrystalVent” Electrostatic Precipitator with Continuous Water Spray

This new device combines water spray hood design and advanced electrostatic precipitation technology to maintain a high oil mist removal efficiency without the need for frequent manual cleaning.

New advanced “CrystalVent” has the following benefits:

- * Use of advanced cylindrical honeycomb design of the electric field incorporated with continuous water spray, thus removing over 95% oil mists.
- * With the fully auto-cleaning function for the EP, a high sustained oil mist removal efficiency can be maintained without the need for frequent manual cleaning, thus saving time and maintenance fee.
- * With exhaust hood design type, it can be installed directly above the cooking stoves. There is no need to install it outside the restaurant.
- * Low water consumption by collecting and recirculating water for the EP.
- * With built-in smart programmable logic controller (PLC) control, easy operation and user friendly instruction can be achieved.
- * Low level discharge is applicable.
- * One control panel can connect up to 4 no. of spray hoods.
- * With modular design, all major components can be removed easily for maintenance and replacement.
- * Certificate of safety compliance with international

standard has been obtained, ensuring its safety and reliability.



採用「圓筒形蜂巢式」的靜電場設計
Use of advanced cylindrical honeycomb design of the electric field

New advanced “CrystalVent” Electrostatic Precipitator with Continuous Water Spray is the best solution for restaurants to solve the oil mist problem and comply with environmental standards. Apart from our standard CrystalVent model, we can also offer tailor design to suit the requirements of different applications.



未啓動除煙賣前的油煙排放情況
Oil mist emission – CrystalVent is turned off



啓動除煙賣後的油煙排放情況
Oil mist emission – CrystalVent is turned on

新改良型號『除煙寶』的規格 (BS266LL型號)

除油煙效率	超過百分之九十五的油煙，出風口不容易察覺有油煙排放
選用物料	全不銹鋼
設計風量	每小時4000立方米
輸入總功率	1,950瓦特
用水量	每小時少於3公升
所需電源	AC 220-230/1/50 (220-230伏特、單相、50赫)
風阻	150帕斯卡
尺寸	2000 x 1150 x 860毫米 (長、闊、高) (煙罩部分) 700 x 485 x 1800毫米 (長、闊、高) (控制櫃部份)
淨重	370公斤(煙罩部分) ，105公斤(控制櫃部份)

Specifications of New Advanced "CrystalVent" (Model: BS266LL)

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
Total power input	1,950 W
Water consumption	< 3 litres / hr
Power supply	AC 220-230/1/50 (220-230V, single phase, 50Hz)
Pressure drop	150 Pa
Dimension	2000 x 1150 x 860 mm (L x W x H) (spray hood) 700 x 485 x 1800 mm (L x W x H)(control panel)
Net weight	370 kg (spray hood), 105 kg (control panel)