

# 新科技去除油煙

## New Technology to Remove Oily Fumes and Grease

**機**電署致力研究並引進新興技術，為客戶提供優質的工程方案。熟食中心的廚房排煙系統和排氣管道容易積聚油脂，導致火警事故。有見及此，我們為客戶引進新排煙系統，於一個月內在試點成功安裝紫外光C及臭氧除油煙設備，經過半年測試，證明安全及成效顯著。我們現正在該中心進行全面安裝，預計於今年第二季完成。

由於熟食中心長時間運作，使用水濺機或靜電除油煙器的傳統方法未能全面防止油脂在排氣管道內迅速積聚。我們為客戶安裝的排煙系統，乃科技的一大突破，通過應用紫外光(短波UV-C)結合臭氧的技術，再配合排氣管道的特別設計，能有效地將油煙內的油分子快速分解。同時，紫外光與臭氧能將油分子化成水、氧氣、二氧化碳和聚合油脂，這些非黏性物質能有效防止油脂積聚在管道內壁上。



安裝前 Before installation

The EMSD is committed to developing and introducing emerging technologies, so as to provide quality engineering solutions to clients. The kitchen exhaust system and its ductwork at cooked food centres are prone to grease build-up, resulting in fire incidents. In view of this, a new exhaust system was introduced to the client for the first time, in which ultraviolet-C (UV-C) ozone equipment was successfully installed at a pilot venue within a month. Its operation has been proven to be safe and effective after a half year's testing. Full-scale installation of the equipment is being conducted at the venue, and is scheduled for completion in the second quarter of the year.



安裝後 After installation

Due to the long operating hours of cooked food centres, the conventional method of using water scrubbers or electrostatic precipitators to treat oily fumes can no longer prevent the rapid build-up of grease inside the exhaust ductwork. The new exhaust system we installed for the client is a technology breakthrough, which combines the technologies of UV light (short wave UV-C) and ozone. Coupled with the special design of the exhaust ductwork, the grease molecules of oily fumes can be effectively decomposed. Moreover, the UV light and ozone can further break down the grease molecules into water, oxygen, carbon dioxide and polymerised grease. These non-sticky substances can effectively prevent accumulation of grease on the inner walls of the exhaust ductwork.

我們樂於與客戶分享最新的排煙技術，歡迎致電3757 6027與高級工程師彭國強先生聯絡。

We are happy to share this new exhaust system with clients. Please contact Mr. Sunny Pang, Senior Engineer, at 3757 6027 for details.

安裝配備紫外光C及臭氧除油煙設備的排煙系統六個月後，排氣管道內壁沒有明顯的油脂積聚，效果顯著。Six months after installation of the exhaust system equipped with UV-C and ozone technologies, there was no obvious grease accumulation on the inner walls of the exhaust ductwork, showing a remarkable effect.