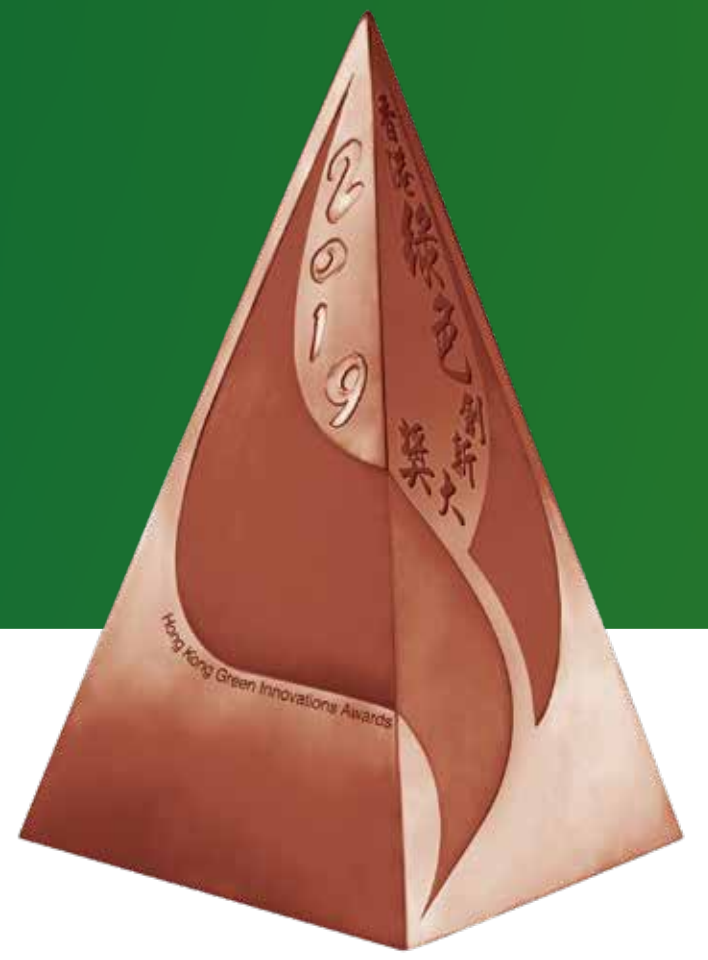


# 香港綠色創新大獎

Hong Kong Green Innovations Awards 2019

## 銅獎 Bronze Award



### 雅弦科技有限公司 — 聲波高效空氣過濾器 Aurabeat Technology Limited – Acoustic High Efficiency Air Filter

與傳統的空氣過濾器相比，本聲波高效空氣過濾器的效能和環保表現均有明顯提升，包括將過濾效率大大提高**50%**；同時亦將材料消耗及成本降低了約**40%**，所需的能源消耗亦減少了**50%**以上。

Comparing to conventional air filter, this Acoustic High Efficiency Air Filter has greatly enhanced the operation efficiency and environmental performance. In particular, the filtration efficiency has been enhanced by 50%, while the material usage and relevant cost, as well as energy consumption have been reduced by around 40% and more than 50% respectively.

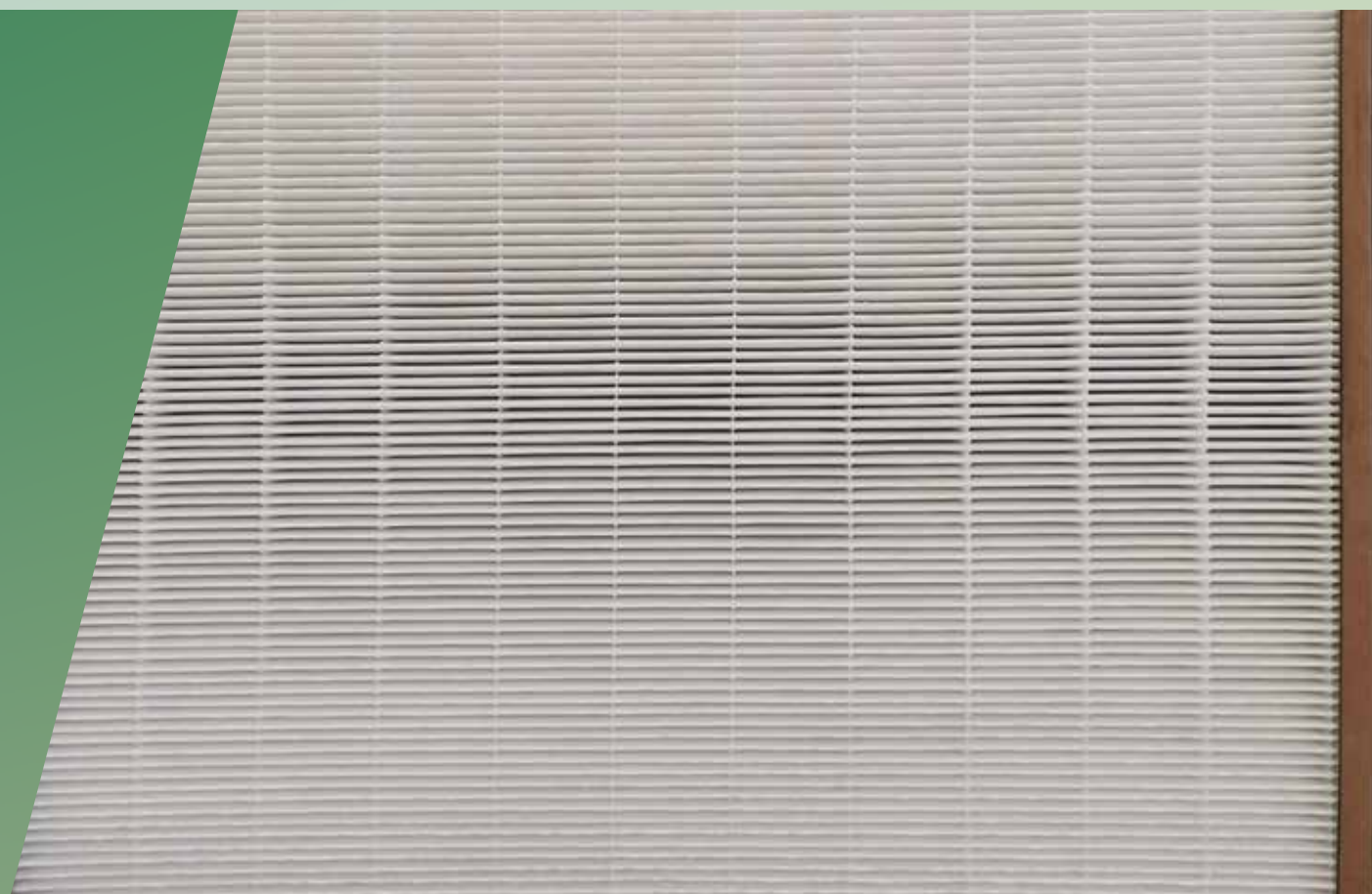


產品由一個或多個聲波產生器在空氣過濾器介質層的底部組成。當在暖氣、通風和空調系統使用時，產品可透過利用聲能引起灰塵顆粒快速振動和促進顆粒滲透到過濾層中，以提高過濾效率。

The Product comprises one or more acoustic wave generators at the bottom of the air filter media layer. When applied in the heating, ventilation and air-conditioning system, the Product can enhance the filtration efficiency by using acoustic energy to induce rapid vibration of the dust particles and facilitate the particles to penetrate into the filter layer.

與傳統的高等級空氣過濾器相比，產品可以提高低等級(高孔隙率)過濾器的過濾效率，過程不會引起空氣阻力，因此與高等級過濾器相比，它只需較低的耗電量來維持空氣流量。經測試採用此產品可為**350 000**平方英尺的商業樓宇節省**154 000**度電。

Comparing to conventional high grade air filters, the Product can increase the filtration efficiency of a low grade filter (high porosity) without causing air resistance, and thus requires a lower energy consumption to maintain the airflow rate when compared to high grade filter. It was tested that 154 000 kWh of electricity has been saved for a 350 000 square feet commercial building with the adoption of this Product.



產品可根據顧客所需改造，以適應任何過濾系統，並已在商業樓宇和酒店安裝使用。

The Product can be customisable to retrofit to any filtration system and has been installed in a number of local commercial buildings and hotels.