

2021

環境關懷設計競賽

| Caring for the Environment Design Competition

佳作

Honorable Mention

人氣獎第二名

2nd place

藻繪-微藻空氣清淨機

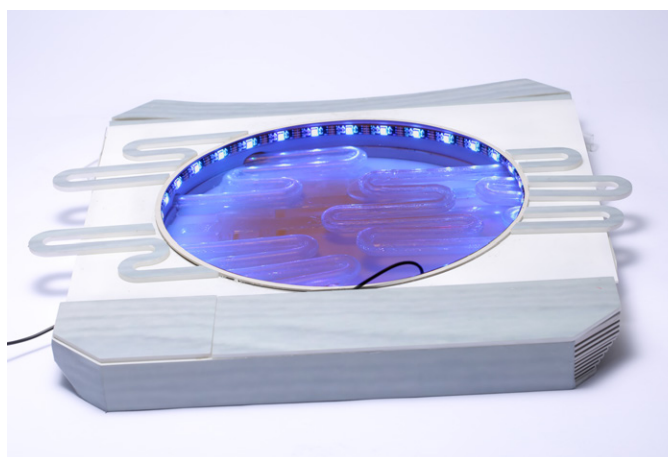
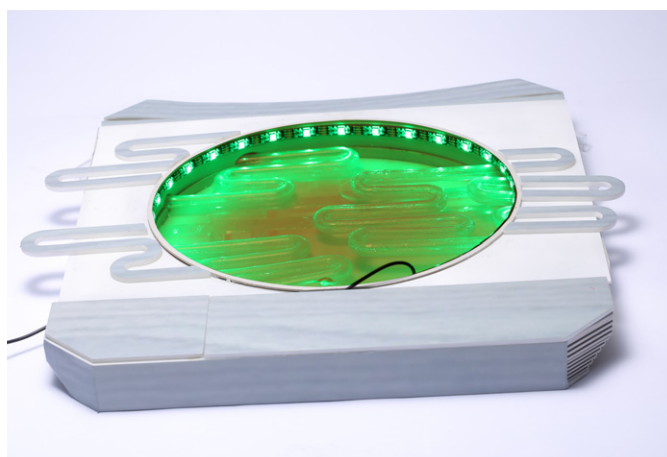
Algae Drawing- Microalgae air refresher

作者 Creator

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一台能在長期使用空調的環境下，不需要開窗做氣體交換的藻反應器空氣清淨機，讓密閉環境不會產生過高二氧化碳。市面上大部分的空氣清淨機都無法過濾二氧化碳，很大的原因是存在技術和維持上的麻煩。外型上，打破傳統空氣清淨機給人的印象，它是壁燈的同時，更是一件需要花時間培養的畫作（生命），搭配園藝治療和親生命假說的理念，只要持續使用（栽培），空氣品質和心中的壓力都能有所改善。操作上，每週只要更換部分藻水，稀釋法將老化的藻體排除，就可以維持藻水的鮮艷。功能上，產品可以有效解決室內二氧化碳過量的問題，具備普通空氣清淨機的功能，還能產生氧氣。構造上，機器將空氣細化並打入鹼性藻水中吸收二氧化碳，使用藻水清洗空氣。

This design is a Microalgae air refresher that can purify indoor air without opening the window for air exchange, well-designed for environments which often uses air conditioner. It prevents the produce of excessive CO₂ in enclosed spaces. Because of the technical and maintenance trouble, most of the air refreshers on the market now don't include the function of filtering indoor CO₂. The Microalgae air refresher is designed as a wall lamp and is also a (living) drawing, different from the normal air refreshers with only a single role. According to the horticultural therapy and the biophilia hypothesis, if the product is continuously used (cultivated), improvement of both air quality and mental healthiness of the users can be seen. Just add clean water once a week, the Microalgae air refresher can exclude the aging algae by dilution and maintain the color brightness of the drawing. Technically, the Microalgae air refresher pushes thinner air into the Alkalinity algae water to absorb CO₂ and purifies the air. It can not only solve the problem of excessive CO₂ and can also produce O₂ at the same time.



機器將空氣細化並打入鹼性藻水中吸收二氧化碳，使用藻水清洗空氣。

The product can solve the problem of excessive CO₂.

