



永續創新
邁向高峰



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得獎專輯



帕基艾兒攜帶型噴霧器
Pocket Air
Portable Nebulizer

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簡介

「帕基艾兒攜帶型噴霧器」為治療呼吸道疾病的產品，可霧化呼吸道液體藥物，主要用於氣喘與慢性阻塞性肺病的病人。經醫學研究證實直徑小於 5 μm 的霧化粒子，才能沉積於下呼吸道，而帕基艾兒攜帶型噴霧器將液體經孔徑約 3~4 μm 的微孔，利用壓電片震動將液體切斷成 2~5 μm 的霧化粒子。微邦的呼吸治療器使用的微噴孔片為世界首創的 Polyimide (PI) 高分子材料，利用準分子雷射製程，於高分子材料上切割出多達 3,600 個直徑只有 3 μm 的微孔，且 PI 具耐酸鹼、抗腐蝕特性，讓微邦的產品有更好的可靠度。不同於市面上的氣動式霧化器，帕基艾兒體積小、運作時安靜，霧化穩定性高、效率高，能提供病患更好的治療體驗。

評語

- 本標的為極小化攜帶型霧化器，可霧化呼吸道液體藥物，主要用於氣喘與慢性阻塞性肺病的病人，具有方便、輕巧、安全、霧化速度穩定、藥液溫度變化低、無噪音等優點。
- 在霧化技術、價格，與國內外醫療器材比較，均有競爭優勢，且未來應用範圍廣，具有廣大市場潛力。

Introduction

Pocket Air is a portable nebulizer that converts drug solutions into aerosol droplets and delivers it into the airway for asthma and COPD patients. Pocket Air is capable to produce particles between 2 to 5μm in diameter by using a vibrating mesh with apertures between 3 to 4μm.

The featured vibrating mesh from Microbase is made from a highly advanced polymer called polyimide. By utilizing the eximer laser technology, Microbase is able to precisely create 3000 3μm diameter holes on the polyimide mesh. The anti-corrosion and anti-clogging property of polyimide made Pocket Air a reliable and outstanding product.

Unlike conventional jet nebulizers, Pocket Air is small, quiet and efficient. It is capable to provide the best airway treatment for patients.

Commentary

- This innovation consists of a miniaturized portable nebulizer which can nebulize liquid medication for the respiratory tract. It is suitable for patients suffering from asthma and chronic obstructive pulmonary disease. This product provides the following benefits: convenience, handiness, safety, stable nebulizing speeds, stable liquid temperatures, and noiselessness.
- This product has a competitive edge in the fields of nebulizing technology and price over domestic and international medical equipment manufacturers and is characterized by a wide application range and expanded market potential.