

# FOX™ VIBRATING MESH NEBULIZER

The FOX device is a handheld, breath-activated, battery-powered inhalation system that delivers nebulized liquid drugs with high performance using a vibrating mesh technology.

The FOX device is suitable for the delivery of small molecules and biologics formulated as solutions or nanosuspensions.



## Key Features

### Breath activated

Reduced medication waste and improved efficiency.<sup>1</sup>

The patient is in control of their dosing.

### Low inspiration flow rate

Maximizes lung delivery.<sup>2</sup>

### Guided inhalation

LED feedback and air control guide patient use.

### Bluetooth® connectivity

Available for digital health applications, including monitoring adherence and compliance.

### CE marked

Has a 510(k) premarket notification for marketing in the US.

### Formulation optimization

Services available to support product development.

## Bring Your Product To Life With Discovery To Delivery Capabilities

Industry-leading innovation requires industry-leading expertise. At Phillips Medisize, a Molex company, our unique capabilities help customers deliver safe and effective solutions that can help people live healthier, more productive lives. From front-end innovation and development to manufacturing and post launch, we work with you at every step — or any stage in between — to help your product succeed in the market.

1. Gessler T, Hossein-Ardeschir G, Held M, et al. The safety and pharmacokinetics of rapid iloprost aerosol delivery via the BREELIB nebulizer in pulmonary arterial hypertension. *Pulm Circ.* 2017;7:505-513.

2. Brand P, Friemel J, Meyer T, Schulz H, Heyder J, Haubetainger K. Total deposition of therapeutic particles during spontaneous and controlled inhalations. *J Pharm Sci.* 2000;89:724-731

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Product Information	Fill Volume (mL)	Delivered Dose (%)	Residual Dose (%)	Treatment Time (minutes)	Average Droplet Size (µm)	Geometric Standard Division
<b>Solution</b> (0.9% w/v NaCl)	<b>0.2</b>	<b>94</b>	<b>6</b>	<b>1</b>	<b>4.3</b>	<b>1.5</b>
<b>Peptides</b> 5 mg/mL Semaglutide Viscosity: 0.9 cP	<b>0.5</b>	<b>90</b>	<b>10</b>	<b>4</b>	<b>5.0</b>	<b>1.5</b>
<b>Proteins</b> 85 mg/mL IgG antibody Viscosity: 2.1 cP	<b>1.0</b>	<b>95</b>	<b>5</b>	<b>11</b>	<b>3.8</b>	<b>1.5</b>
<b>Solution</b> (0.1% w/v albuterol)	<b>2.0</b>	<b>90</b>	<b>9</b>	<b>9</b>	<b>5.0</b>	<b>1.7</b>

Indicative performance only; Product performance is formulation dependent.

Device maximum fill volume is 4 mL.

Treatment time is estimated by adjusting the number of breaths by a simulated 1:1 inhalation/exhalation time.

## Platform specifications

Fill volume range 0.1–4.0 mL

Charge time: 15 minutes as per IFU

## Solution performance (salbutamol sulphate)

Delivered dose: 90%

Residual dose: 9%

Aerosol output rate: 0.52 mg/min

Delivered dose, residual dose and delivery rate performance of FOX Device with a 2 mL fill of 1 mg/ml salbutamol (i.e. 0.1% w/v albuterol) in 0.9% sodium chloride solution in accordance with EN ISO 27427:2019. Data is reported as a percentage of filled content.

Reference documents:

Newman, J. Aerosol Characterization and In Silico Lung Deposition Modeling of a Breath Activated Mesh Nebulizer as Compared with a Continuously Producing Nebulizer. Poster presented at the International Society for Aerosols in Medicine, June 2025.

<https://doi.org/10.1089/jamp.2025.12100.abstract>

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