Continuum of Care

Aerogen works across multiple modalities for ventilated and non-ventilated patients

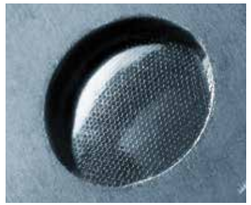
Neonate → Paediatric → Adult

Trusted by the world's leading ventilator manufacturers

PHILIPS · Medtronic · ResMed · HAMILTON MEDICAL · GE · Dräger · MAQUET GETINGE GROUP

High performance aerosol drug delivery

At the heart of every Aerogen device is our unique **palladium vibrating mesh technology**.



Aerogen vibrating mesh technology comprises a unique dome-shaped aperture plate perforated with **over 1,000 precision formed tapered holes**.

When energy is applied, the aperture plate vibrates at **128,000 times a second** producing a low-velocity, fine particle, nebulised mist of consistently sized droplets (1-5µm)[1] to achieve superior lung deposition of medication.[2, 3]

1. Aerogen Solo Instruction Manual. 2. Dugernier J. et al Pharmaceutical research. 2017;34:290-300
3. Galindo-Filho VC et al. Respir Care 2015;60(9):1238–1246.

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Aerogen®
Pioneering Aerosol Drug Delivery

Confidence and control with Aerogen

Aerogen puts you in control ensuring confidence and consistency of patient care

CONFIDENCE

- Can be used with all medications for inhalation [1]*
- Dose prescribed is dose delivered with minimal residual volume (<0.1ml for 3ml dose) [1]
- Aerogen Solo sits above the circuit [1]**

CONTROL

- Quick and easy to set up [1]
- Does not affect ventilator parameters [1]
- Refill medication without breaking the circuit [1]

Aerogen® Solo

- Single patient use for up to 28 days [1]
- Virtually silent [2]
- Can be placed at the wye or at the humidifier [1]
- Suitable for solutions, suspensions, proteins and peptides [3]
- No heating or degradation of medication [1]

*Which are approved for use with a general purpose nebuliser
**A jet nebuliser sits at the lowest point on the circuit

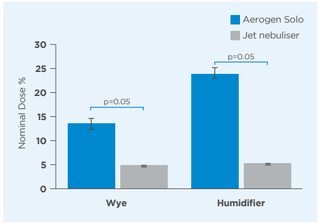
1. Aerogen Solo Instruction-Manual, 2. Ari A. et al. J Aerosol Med Pulm Drug Deliv 2015;28(4):281-289 3. Dhand R. Nebulizers that use a vibrating mesh or plate with multiple apertures to generate aerosol. Respiratory care. 2002;47:1406-16; discussion 1416-8.

Superior performance across multiple modalities

Ventilated and non-ventilated patients

MECHANICAL VENTILATION

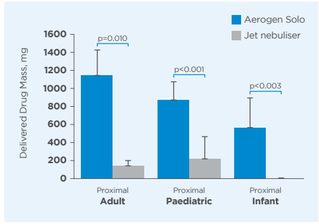
Aerogen Solo achieves superior drug delivery*



* When compared to a jet nebuliser in adult mechanical ventilation with bias flow
Ari A. et al. 2010 [1]

HFOV

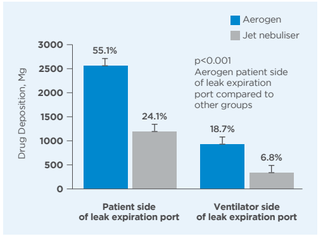
Aerogen Solo delivers higher drug dose in all patient populations*



* When compared to a jet nebuliser; placement of Aerogen proximal to the patient
Fang et al. J Aerosol Med Pulm Drug Deliv 2016 [2]

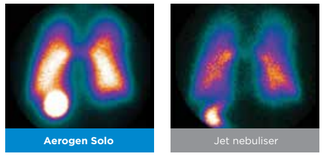
NIV

Aerogen achieves greater drug delivery during NIV*



Abdelrahim et al. 2010 [3]
* When compared to a jet nebuliser at both positions

Aerogen delivers a 3X greater lung dose during NIV* [4]



	Aerogen	Jet nebuliser	P value
Deposition (%)	5.5 ± 0.9	1.5 ± 0.6	0.005

* When compared to a jet nebuliser

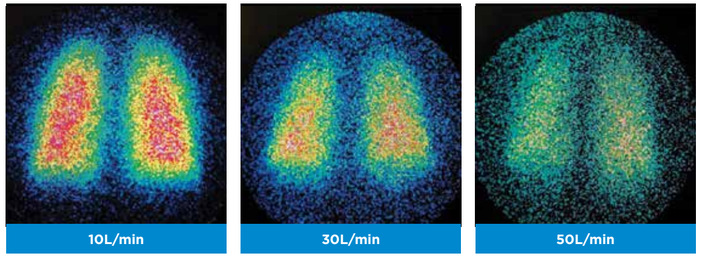
HFNC

Aerogen Solo achieves greater lung deposition at lower flow rates.

At 30L/min Aerogen Solo provides 3.76% to the lungs.

	10L/min	30L/min	50L/min
Deposition (%)	11.8 ± 4.9	3.76 ± 1.36*	2.23 ± 0.81*

*p<0.05 compared to 10L/min



Alcoforado et al. ISAM poster presentation 2016[1]

SPONTANEOUS BREATHING

- Superior performance for your spontaneous breathing patients with Aerogen Ultra [2, 3]*
- Aerogen Ultra delivers a 6X greater lung dose [2]*
- Aerogen Ultra results in an improved patient response to treatment [3]*

* In comparison studies with a jet nebuliser

Aerogen® Ultra

1. Ari A. et al. Respir Care 2010;55(7):845–851 2. Fang et al. J Aerosol Med Pulm Drug Deliv 2016 3. Abdelrahim ME et al. J Pharm Pharmacol 2010;62(8):966–972 4. Galindo-Filho VC et al. Respir Care 2015;60(9):1238–1246.

1. Alcoforado et al. ISAM poster presentation 2016 2. Dugernier J. et al Pharmaceutical research. 2017;34:290-300 3. Cushen B, et al. BTS poster presentation. 2016.