NEBUTECH® NEBULIZER

NEBUTECH® HIGH-PERFORMANCE NEBULIZER

Every breath counts in aerosol delivery. The NebuTech® High-Performance Nebulizer rapidly delivers effective therapy using its unique bolus aerosol delivery pattern. Combined with the high pressure Salter Elite compressor, the NebuTech helps patients stay compliant to their prescribed aerosol therapy. NebuTech is the fastest growing jet nebulizer in hospitals, making the transition to home treatments easier.

Reservoir tower allows medication delivery during the first third of breath

One-way valves help minimize medication loss during exhalation

45° angle allows treatment delivery sitting up or laying down

Built in drool catcher prevents medication chamber contamination from oral secretions.

Cone expanded surface area helps maximize capillary action for faster treatment times

KEY FEATURES

- For hospital wide use, EMS, and In-Home Therapy

- Optional mask, expiratory filter, and PEP therapy

- Shorter treatment time helps promote patient compliance; 3 mL in less than 5 min at 8 LPM

- Screw on cap provides leak proof seal

- Safety PEP allows improved ventilation of the lungs during therapy

- Expiratory Filter Set helps protect against exposure to potential exhaled medication

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VERSATILITY

Patient-friendly add-on features provide a flexible and improved respiratory experience that is unique to each patient. NebuTech®allows for multiple patient settings, options and positions.

SAFETY PEP

Features include 10 settings selection, visible numbers with click-lock adjustment, maximum 20 cm H_2O, relief valve, and manometer port. Allows PEP therapy simultaneously with aerosol treatment.

CONE

The cone creates a greater surface area to maximize capillary action and enables operation at various angles.

COMPRESSOR

The lightweight portable and quiet Salter AIRE Elite compressor is designed for rapid effective aerosol delivery. Compressors are available in two voltage choices and come paired with either a T-Piece or NebuTech nebulizers.

B/V FILTER

Bacterial and viral (B/V) filters help reduce the transmission of microbes and other particulate matter in the breathing system. Providing highly efficient filtration, the B/V filters are lightweight and shaped to reduce drag on the breathing system while ensuring patient comfort.

- Low expiratory resistance - less than 1.0 cm H_2O pressure change from before to after treatment, maximum resistance after treatment was 2.8 cm H_2O
- Filter should be replaced every 24 hours
- The Safety PEP cannot be used in conjunction with the BV Filter

EXPIRATORY FILTER

The filter set fits on the exhalation valve of the mouthpiece to reduce the amount of aerosolized medication released into the atmosphere. This helps provide safety to caregivers from exposure to potential exhaled medication.

- Disposable filter set or reusable filter set with replacement filter pads
- Easy to mount to exhalation valve
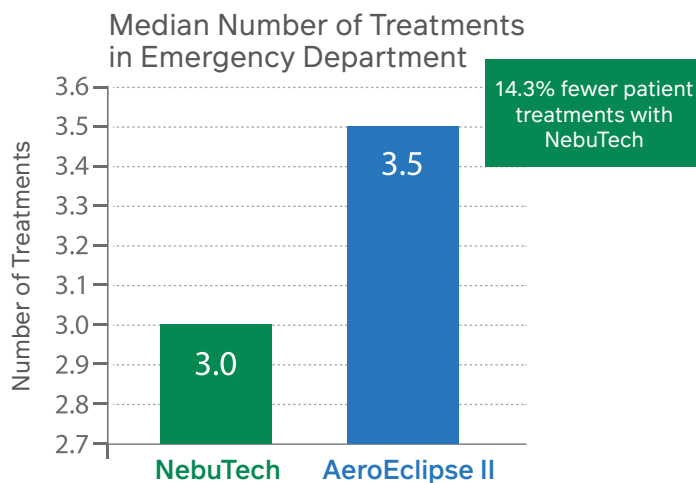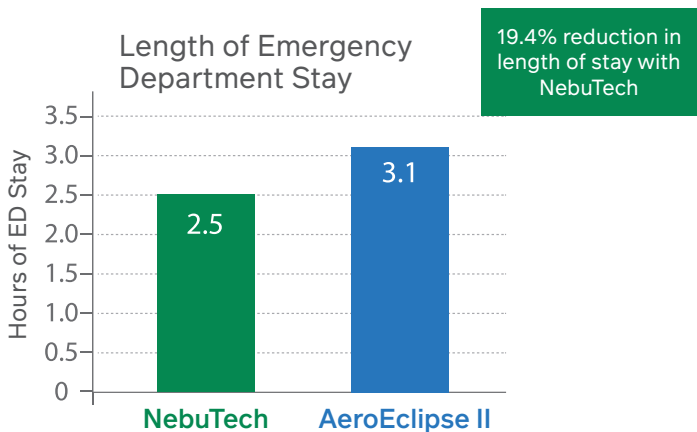- Reduces exposure to aerosolized medications

AEROSOL MASK

The Salter Labs® brand aerosol masks are designed to work seamlessly with the NebuTech® High-Performance and T-Piece nebulizers. The unique valved masks help improve medication delivery.

PERFORMANCE

OUTCOMES VS. AEROECLIPSE® II

In two large hospital evaluations, NebuTech®performed extremely well compared with AeroEclipse® II across several critical performance factors[1,3]:
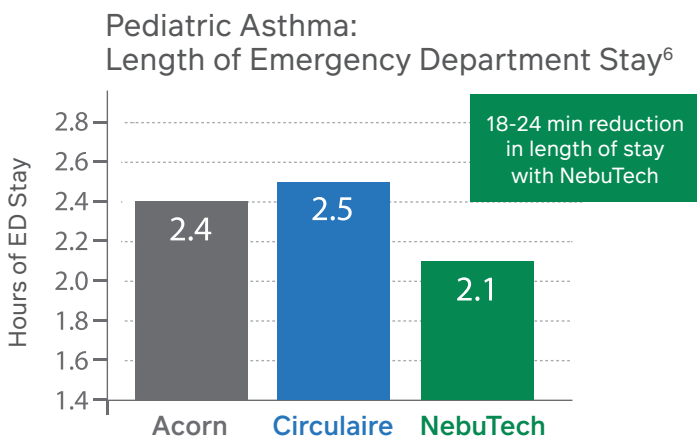
· Significantly fewer number of patient treatments[3]

· Reduced overall length of patient stay[3], which can help reduce per-shift treatment time of healthcare professional

Length of Emergency Department Stay

19.4% reduction in length of stay with NebuTech

	Hours of ED Stay
NebuTech	2.5
AeroEclipse II	3.1

Median Number of Treatments in Emergency Department

14.3% fewer patient treatments with NebuTech

	Number of Treatments
NebuTech	3.0
AeroEclipse II	3.5

OUTCOMES VS. STANDARD T-PIECE

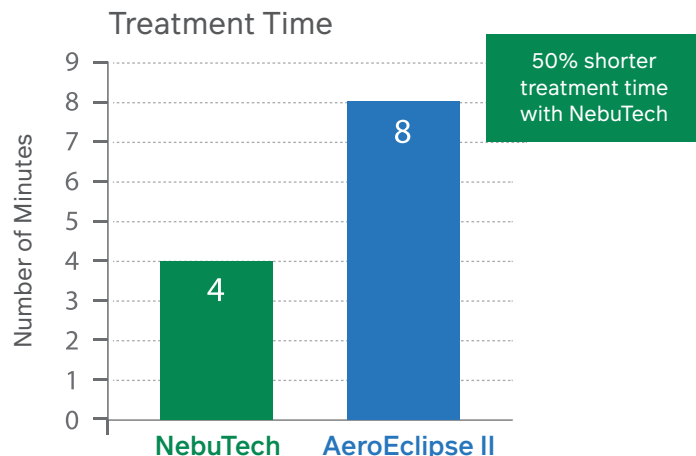NebuTech demonstrated significant clinical outcome improvements, which translate into financial benefits.

· Significantly shorter length of patient stay in the emergency department

· Significantly reduced hospital admissions

· NebuTech® Reduced Hospital Admissions by [6]:

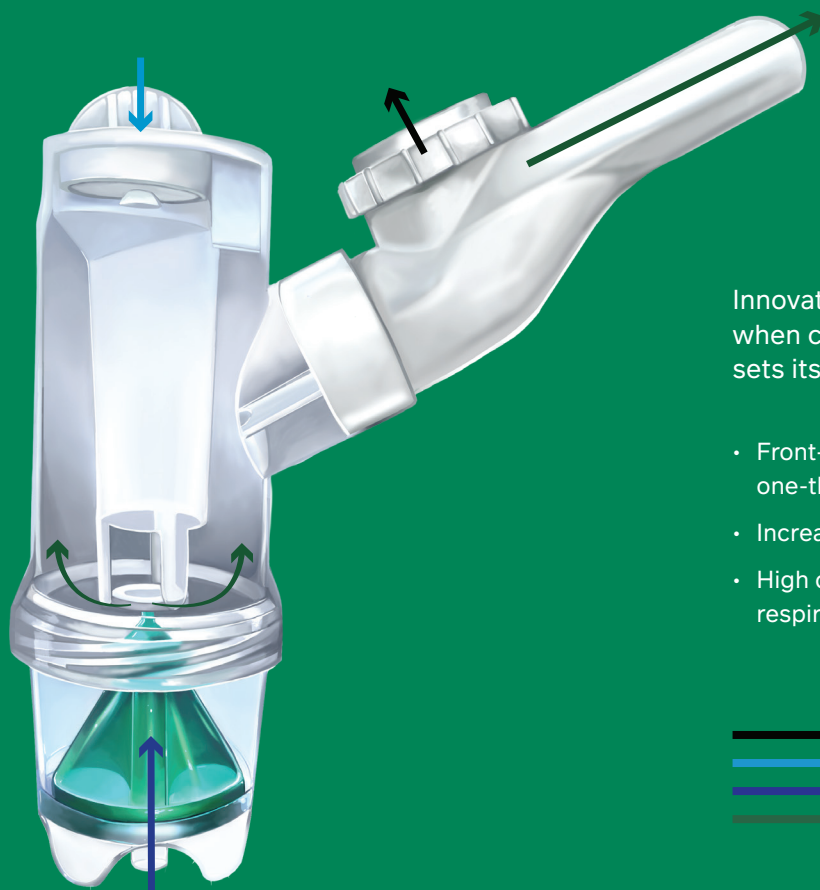　· 36% vs. Circulaire (p=0.02)

　· 50% vs. Acorn (p=0.02)

SPEED

Treatment time is important to both you and your patient. In two independent evaluations, NebuTech delivered an advantage compared with other competing products[3,4]:

· Significantly shorter treatment times, with an average of 4 minutes per treatment[3]

· 82% of treatments completed in less than 3 minutes[4]

Pediatric Asthma: Length of Emergency Department Stay[6]

18-24 min reduction in length of stay with NebuTech

	Hours of ED Stay
Acorn	2.4
Circulaire	2.5
NebuTech	2.1

Treatment Time

50% shorter treatment time with NebuTech

	Number of Minutes
NebuTech	4
AeroEclipse II	8

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DESIGN IN DETAIL

Innovative technology makes the difference when choosing the right nebulizer, NebuTech® sets itself apart.
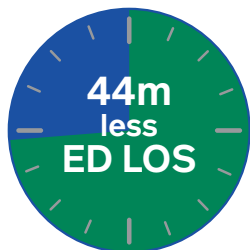
- Front-loaded bolus dosing during critical first one-third of each breath[1]
- Increased drug deposition deep into the lungs[1]
- High quality aerosol - 80% of particles in the respirable range(<5 microns)[2]

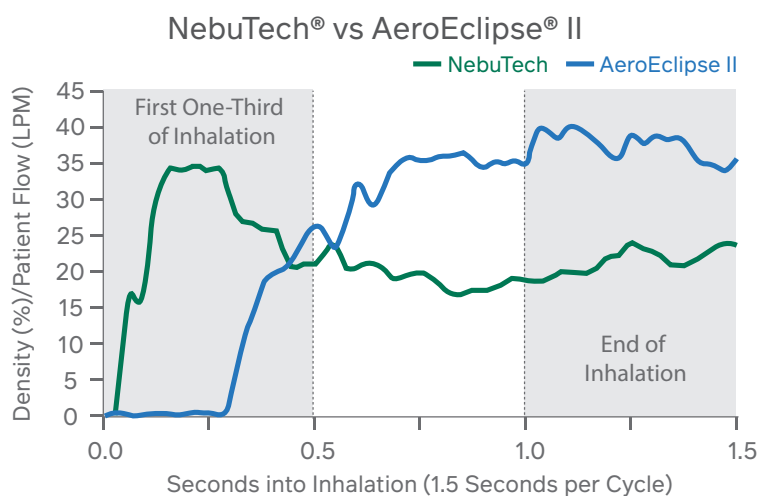|	
▬▬▬	EXHALED BREATH
▬▬▬	ENTRAINED AIR
▬▬▬	SUPPLY AIR
▬▬▬	AEROSOL

OUTCOMES VS 1-HOUR CONTINUOUS NEBULIZER

In an emergency department (ED) study of children with moderate to severe asthma exacerbations, breath-enhanced NebuTech®helped anxious asthmatic patients and their parents spend less time in the ED[5]:

- Quick action upon symptom resolution
- Similar safety profile
- ED length of stay (LOS)[2] was reduced by over 44 minutes (p<0.001)
- Shorter time between assessments

Zero Readmissions for patients treated with NebuTech, even though they presented with a PAS score of 3 or higher.

44m less ED LOS

AEROSOL DELIVERY

NebuTech® vs AeroEclipse® II

Total drug dose (ug/min)

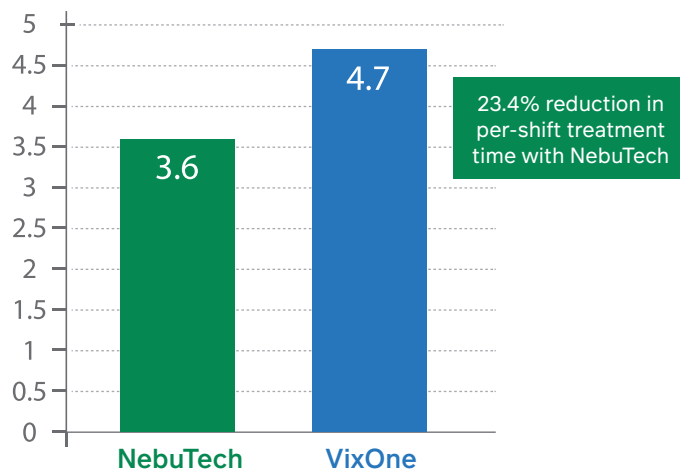| PERFORMANCE	NEBUTECH®	AEROECLISPE® II
First 250 mL of Inhalation	249 ± 40	73 ± 20
Entire Inhalation Cycle	469 ± 64	309 ± 33

EFFICIENCY

Hospitals prioritize both positive patient outcomes and cost-efficiency. NebuTech® positions itself as addressing both concerns.
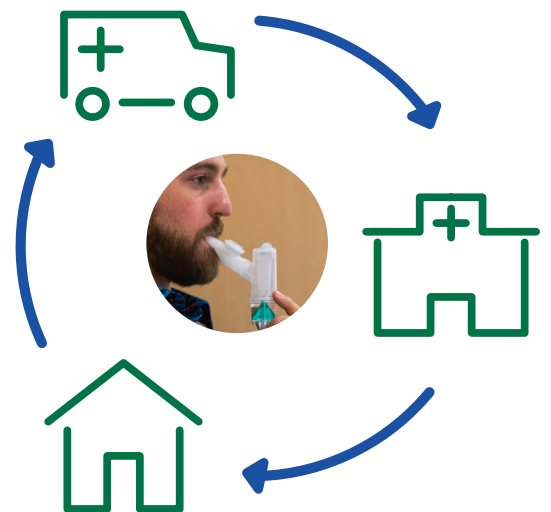
- Less medicine waste with one-way valving[2] and closed-chamber system

- More drug to patient faster[1,4]

- Reduced treatment time[1,3,4,6]

- Enhanced productivity and workflow: RT staff saves time for other value-added, patient-focused activities[3,4,5,6,7]

Lower Per-Shift Treatment Time for Required Procedures

NebuTech: 3.6

VixOne: 4.7

23.4% reduction in per-shift treatment time with NebuTech

NEBUTECH® MAKES IT EASY TO PROVIDE CONSISTENCY IN CARE

NebuTech spans the full continuum of patient care from pediatric to elderly. Using similar products from hospital to home helps ensure better patient compliance with treatments.

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NEBUTECH® HIGH-PERFORMANCE NEBULIZER WITH EXPIRATORY BACTERIAL/VIRAL FILTER

Disposable, single patient, multiple use

ITEM	DESCRIPTION	PATIENT INTERFACE	CONNECTOR	SUPPLY TUBE	PK
8990-7-50	Disposable Nebulizer with Expiratory Bacterial/Viral Filter	One-Way Valve Mouthpiece	Trumpet	7' (2.1 m)	50
8990TG-7-50	Disposable Nebulizer with Expiratory Bacterial/Viral Filter	One-Way Valve Mouthpiece	Female Thread Grip	7' (2.1 m)	50
8995-0-50	Expiratory Bacterial/Viral Filter	–	–	–	50

SunMed Bacterial/Filter media was tested to VFE Efficiency 99.9978% and BFE Efficiency 99.9999% ASTM Standards by Nelson Laboratory. Filter efficiency may vary during use.

NEBUTECH® HIGH-PERFORMANCE DISPOSABLE NEBULIZER FOR HOSPITALS

Single patient, multiple use

ITEM	DESCRIPTION	PATIENT INTERFACE	CONNECTOR	SUPPLY TUBE	PK
8960-7-50**	Disposable Nebulizer	One-Way Valve Mouthpiece	Trumpet	7' (2.1 m)	50
8980-0-25***	Disposable Expiratory Filter Set	–	–	–	25
1301-0-25	Salter Safety PEP Device With Nose Clip	–	–	–	25
1301-0-10	Salter Safety PEP Device With Nose Clip	–	–	–	10
8984-7-50	Disposable Nebulizer	Adult Aerosol Mask	Trumpet	7' (2.1 m)	50
8960TG-7-50	Disposable Nebulizer	One-Way Valve Mouthpiece	Female Thread Grip	7' (2.1 m)	50
8984-7-50	Disposable Nebulizer	Adult Aerosol Mask	Female Thread Grip	7' (2.1 m)	50
8967-7-50	Disposable Nebulizer	Pediatric Valved Aerosol Mask	Trumpet	7' (2.1 m)	50
8982-7-50	Disposable Nebulizer	One-Way Valve Mouthpiece and Expiratory Filter Set	Trumpet	7' (2.1 m)	50

NEBUTECH® HIGH-PERFORMANCE REUSABLE NEBULIZER* FOR HOMES

ITEM	DESCRIPTION	PATIENT INTERFACE	CONNECTOR	SUPPLY TUBE	PK
8660-7-50**	Reusable Nebulizer	One-Way Valve Mouthpiece	Trumpet	7' (2.1 m)	50
8685-0-1	Replacement Filter Media	–	–	–	30
8352-8660-7-1	Salter Aire Elite Compressor, Reusable Nebulizer	One-Way Valve Mouthpiece	Trumpet	7' (2.1 m)	1

*U.S. Patent No. *RE33,717, 5,584,28; **6,176,234 | ***Other U.S. and worldwide patents pending*

References: 1. Misra C. Improved aerosol delivery characteristics of a breath enhanced nebulizer over a breath actuated nebulizer. 2. Data on file. Salter Labs; Arvin, CA. 3. Rish J, Timmons I. Comparison of the efficacy of two nebulizers in treating acute exacerbation of COPD in the emergency department. Respir Ther. 2013;8(6). 4. Hoisington ER, Chatburn RL, Stoller JK. A comparison of respiratory care workload with 2 different nebulizers. Respir Care. 2009;54(4):495-499. 5. Wilkinson M. Comparison of nebulizers in ED in pediatric asthma patients. Abstract 4139.301. Presented at Pediatric Academic Societies (PAS) 2016 annual meeting. May 2016. Baltimore, MD. 6. Myers TR, Chatburn R, Rogers M, Camasso-Richardson K, Kerchmar C. Does nebulizer brand make a clinical difference in the emergency room management of pediatric asthma? Respir Care. 1999;44(10):1278. 7. Lantz G. Labor Savings Using the Salter NebuTech®Nebulizer. Data on file. Salter Labs; Arvin CA.

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