



## EFFECTIVE THERAPY IN A THOUGHTFUL DESIGN.

The OptiChamber® Advantage provides **reliable and efficient drug delivery with ease**. Featuring a valve sensitive enough to move under the gentlest breath, the OptiChamber Advantage helps to **deliver the medication where it is needed most**.

# Performance Characteristics of the OptiChamber<sup>®</sup> Advantage Valved Holding Chamber (VHC)

## Performance Characterization of pMDI-Delivered HFA Albuterol from Two Valved Holding Chambers

H. Wu Ph.D., R. Dalby Ph.D. American Thoracic Society (ATS) 2003 Poster Presentation.

## Performance Characterization of pMDI-Delivered HFA Proventil from Two Valved Holding Chambers

H. Wu Ph.D. American Academy of Pediatrics (AAP) 2003 Poster Presentation.

These posters assess VHC performance with commonly prescribed short-acting beta agonists at different flow rates.

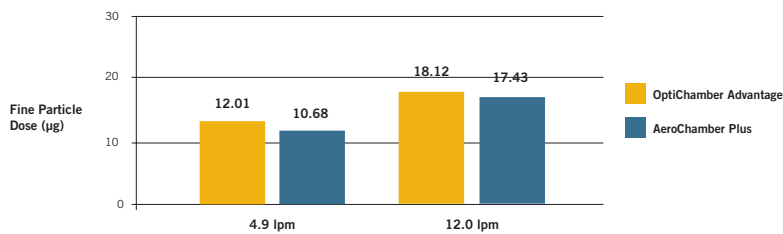
### Main Findings:

- The fine particle dose output of HFA Ventolin and HFA Proventil is directly related to the flow rate tested.
- There is no significant difference in the performance of the OptiChamber Advantage and the AeroChamber Plus<sup>™</sup>.

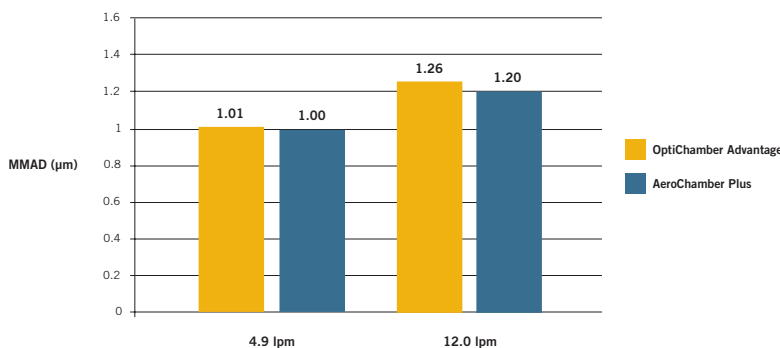
### Key Benefit of OptiChamber Advantage:

- Designed for both children and adults, providing optimal performance when used with frequently prescribed asthma medications.

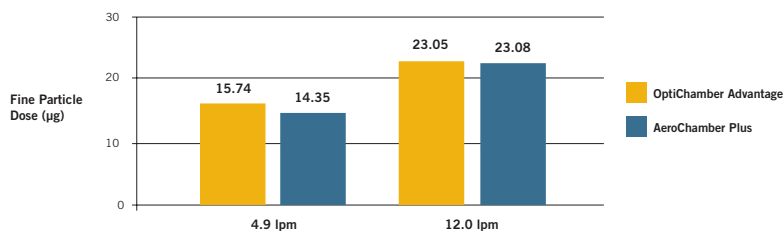
VHC PERFORMANCE (FPD) WITH HFA ALBUTEROL AT VARIABLE FLOW RATES



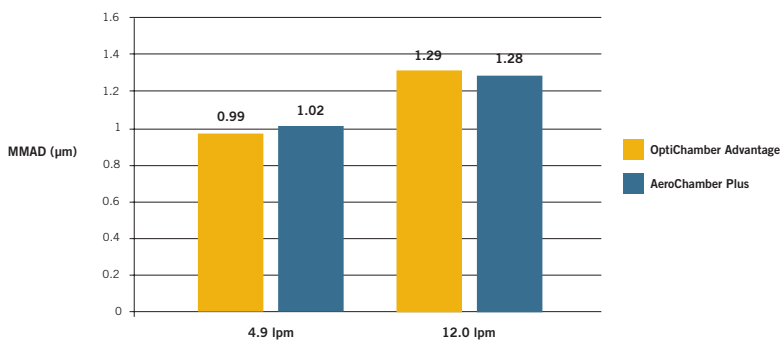
VHC PERFORMANCE (MMAD) WITH HFA ALBUTEROL AT VARIABLE FLOW RATES



VHC PERFORMANCE (FPD) WITH HFA PROVENTIL AT VARIABLE FLOW RATES



VHC PERFORMANCE (MMAD) WITH HFA PROVENTIL AT VARIABLE FLOW RATES



## Performance Characterization of pMDI-Delivered Fluticasone from Two Valved Holding Chambers

H. Wu Ph.D., R. Dalby Ph.D. Data on File, Respironics NJ.

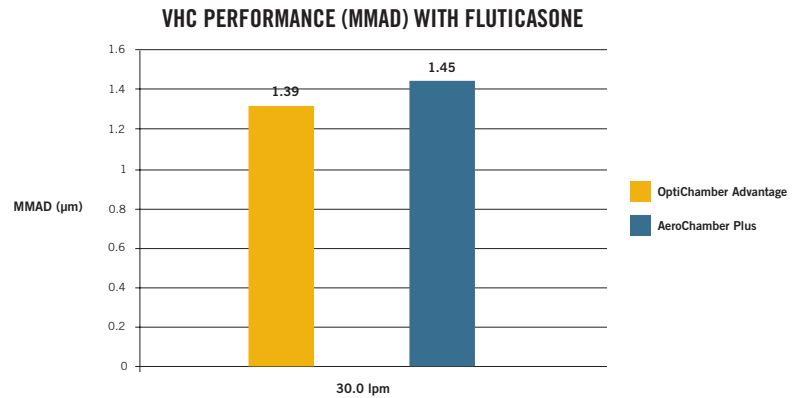
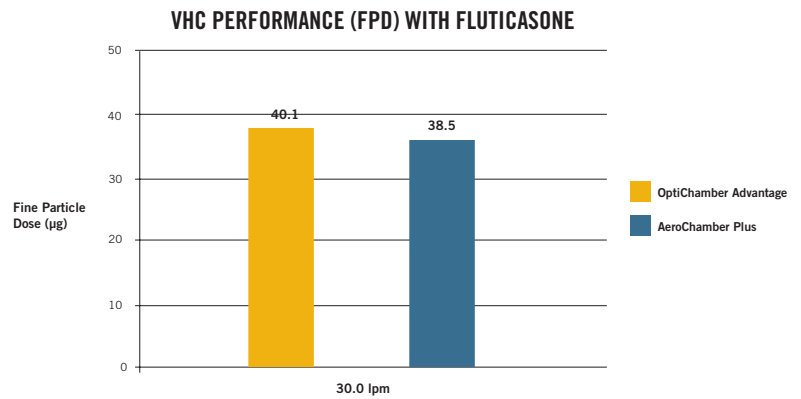
This poster assesses VHC performance using fluticasone at a flow rate of 30 liters per minute (lpm).

### Main Finding:

- There is no significant difference in the performance of the OptiChamber Advantage and the AeroChamber Plus.

### Key Benefit of OptiChamber Advantage:

- Delivers a clinically effective dose output of the inhaled corticosteroid fluticasone for the enhanced control of asthma related symptoms.



## Bacterial Surveillance and Cost-Effectiveness of the Common Canister Protocol (CCP) When Using the Respironics OptiChamber

W. Wojciechowski MS RRT, H. Maddox, A. Moseley. American Academy of Respiratory Care (AARC) 2001 Poster Presentation.

This poster evaluates the safety and cost savings associated with implementing the common canister protocol (CCP).

### Main Findings:

- The CCP appears to be a safe method for administering pMDI medications when this VHC is used.
- CCP offers a significant financial incentive (~57% savings) to hospitals adhering to this treatment protocol.

### Key Benefit of OptiChamber Advantage and CCP:

- Offers a safe and financially worthwhile alternative to hospitals using the single-patient-use canister method with VHC treatments.

## Dead Space Comparison between the OptiChamber Advantage Mask and the AeroChamber Plus Mask

E. Lieberman. Data on File, Respironics NJ.

This paper assesses the dead space volume of VHC masks.

### Main Finding:

- The dead space volume of the OptiChamber Advantage Mask (medium) is 32% less than the AeroChamber Plus Mask (medium).

### Key Benefit of OptiChamber Advantage:

- Reduced dead space volume increases drug delivery.\*

\*S. Shah, A. Berlinski MD, B. Rubin MD MBA FAARC. Force-Dependent Static Dead Space of Face Masks Used With Holding Chambers. Respiratory Care; 51; 140-144.

# OptiChamber® Advantage

Valved Holding Chamber For Use With Metered Dose Inhalers



Overall Dimensions	
LENGTH	6.8" (17 cm)
DIAMETER	2.1" (5.25 cm)
CHAMBER VOLUME	218 ml
WEIGHT	2.5 oz.

The OptiChamber mouthpiece offers a standard 22 mm O.D. for tracheal tube and other connections.



Detachable masks are available packaged separately or with OptiChamber Advantage.



## Product Specifications

**Materials:** OptiChamber is constructed of ISO 10993 compliant thermoplastics. The valve and mask are silicone rubber. OptiChamber products contain no latex.

**Maintenance:** OptiChamber can be completely disassembled for cleaning. Warm water and mild soap are recommended.

**Quality Assurance:** 100% of OptiChamber units are quality-control inspected at the factory before shipment.

**Life Span:** With proper care (i.e., cleaning and routine valve replacement), OptiChamber should last at least one year. Replacing the valve can increase the longevity of OptiChamber.

## Ordering Information

OptiChamber Drug Delivery Products	Units per Case/ Packaging	Reorder No.
OPTICHAMBER ADVANTAGE	10	HS80010-010
OPTICHAMBER ADVANTAGE	50	HS80050-050
PEDIATRIC MASK/SMALL	10	HS81111-010
PEDIATRIC MASK/MEDIUM	10	HS81211-010
ADULT MASK/LARGE	10	HS81311-010
OPTICHAMBER ADVANTAGE WITH SMALL MASK	10	HS80110-010
OPTICHAMBER ADVANTAGE WITH MEDIUM MASK	10	HS80210-010
OPTICHAMBER ADVANTAGE WITH LARGE MASK	10	HS80310-010
REPLACEMENT VALVES	2/Bag	HS80702-001

Drug Delivery Products for the European Union (EU)*	Units per Case/ Packaging	Reorder No.
OPTICHAMBER ADVANTAGE	10	HS80010EU-001
PEDIATRIC MASK/SMALL	10	HS81110EU-001
PEDIATRIC MASK/MEDIUM	10	HS81210EU-001
ADULT MASK/LARGE	10	HS81310EU-001
OPTIVENT® IN-LINE MDI SPACER	10/Bag	**HS762EU-001

\*These products are CE-marked with labeling in multiple languages.



## RESPIRONICS®

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