

# AERO/VENT<sup>TM</sup> MAX

Radioaerosol Lung Imaging System  
Model AV-500 Series

## BETTER DELIVERY, BETTER RESULTS

Medi/Nuclear's proprietary nebulizer produces ultrafine particles with MMAD of 0.28  $\mu\text{m}$ , most of which are under 1  $\mu\text{m}$  and 40.8% less than 0.2  $\mu\text{m}$ . These ultrafine particles minimize the possibility of central deposition and travel deep into the lungs, resulting in superior alveolar delivery and sharp, clear images of unsurpassed quality with Planar and SPECT.

The easy-to-use Aero/Vent<sup>TM</sup> Max combines drop-in kit convenience with maximum shielding and the Safety Shield<sup>TM</sup> Mouthpiece for unsurpassed protection. Unidirectional airflow provides dosing in approximately 2-3 minutes and minimal breathing resistance to improve throughput of critical patients.

As a closed-circuit system, Aero/Vent<sup>TM</sup> Max provides safer aerosol delivery. Tidal breathing minimizes the risk from patient coughs. Face masks allow coughs to be directed into a proprietary HEPA filter with >99.97% trapping efficiency. Kits are fully disposable and the shield easily cleaned between patients.



## FEATURES AND BENEFITS

- ◆ Full patient dosing in less than 3 minutes.
- ◆ Excellent 100k-150k count image in just 1 minute.
- ◆ Use with SPECT using various radiotracers.
- ◆ Proprietary nebulizer produces ultrafine particles with MMAD of 0.28  $\mu\text{m}$ : 97.9% being under 1  $\mu\text{m}$  with 40.8% being less than 0.2  $\mu\text{m}$ .
- ◆ Proprietary HEPA filter with >99.97% trapping efficiency.
- ◆ Expandable 6-24 inch flex-tube for easy patient positioning upright or supine.
- ◆ Scuba-style Safety Shield<sup>TM</sup> Mouthpiece standard.
- ◆ Kit with air cushioned face mask available for coughing patients or those unable to manage a mouthpiece or nose clip.
- ◆ Unidirectional air flow maintains ultrafine particle size, allows each breath to be fully medicated and virtually eliminates breathing resistance to support shallow breathing patients.
- ◆ Special kits for ventilator patients fit standard 15mm endotracheal and tracheotomy tubes.
- ◆ Simple set-up with drop-in kit convenience.
- ◆ Shield's lead lining surpasses recommended levels.
- ◆ Easy cleaning and disinfecting between patients.
- ◆ Activity required: 40 mCi in a minimum of 2 mL.
- ◆ FDA cleared and American made for quality assurance.

[www.medinuclear.com](http://www.medinuclear.com)



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## AERO/VENT™ MAX KIT SPECIFICATIONS

|                             |   |
|-----------------------------|---|
| Nebulizer:                  | Medi/Nuclear NEB-3A+ Jet Nebulizer                        |
| Nebulization Rate:          | 0.16 mL/min   |
| Standard Flow Rate:         | 10 L/min  |
| Max. Reservoir Volume:      | 6 mL  |
| Working Reservoir Volume:   | 2 mL  |
| MMAD:                       | .28 micron  |
| Particle Size Distribution: | <0.2µM 40.8%  |
|                             | 0.2µM to 1.0µM 57.1%                                      |
|                             | 1.0µM to 5.0µM 2.1%                                       |
|                             | >5.0µM 0  |
| Filter:                     | HEPA with >99.97% trapping efficiency                     |
| Tubing:                     | Expandable from 6-24 inches for easy patient positioning. |
| Airflow:                    | Unidirectional.   |
| Dosing:                     | 2-3 minutes   |
| Counts:                     | 100k-150k count image in 1 minute                         |
| Activity Required:          | 40 mCi in a minimum of 2 mL                               |

Safety Shield™ Mouthpiece comes standard with Aero/Vent™ kits.

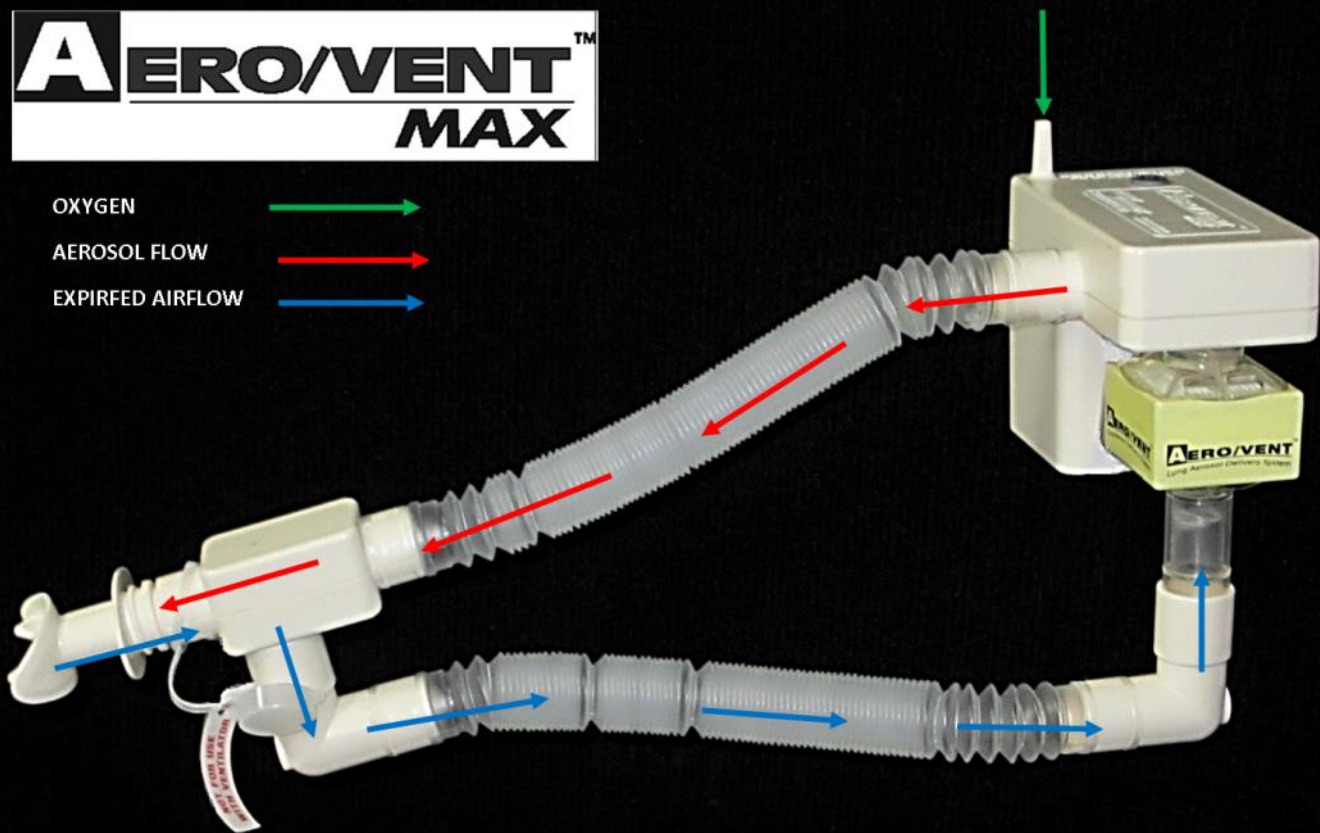


Kits may be ordered with Air-Cushioned Facemask.



### AERO/VENT™ MAX

OXYGEN →  
 AEROSOL FLOW →  
 EXPIRED AIRFLOW →



- ◆ As a patient inhales, medication from the nebulizer moves through the top tube, and into the mouthpiece.
- ◆ When the patient exhales the exhalation is directed through the bottom tube and into a HEPA filter.
- ◆ During exhalation, air continues to flow through the nebulizer into the top tube.
- ◆ When the next breath is taken, the patient immediately inhales the medication that has filled the top tube.

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## SPECIAL KITS FOR VENTILATOR DEPENDENT PATIENTS #AV-400+V

Special radioaerosol lung imaging kits for patients on ventilators fit all standard 15mm endotracheal and tracheotomy tubes. Kits come complete in a small case quantity of just 6 each and are used with the standard Aero/Vent™ Plus or Aero/Vent™ Max lead shield.



## AERO/VENT™ MAX LEAD SHIELD #AV-501A

### OVERVIEW

The Aero/Aero/Vent™ Max lead shield replaces the now retired Aero/Vent™ Plus lead shield and includes many of the same great features. All Aero/Vent™ Plus and Aero/Vent™ Max kits may be used with the Aero/Vent™ Max lead shield.

### SPECIFICATIONS

Material: Aluminum with Powder Coating  
 Weight: 16 1/2 lbs.  
 Dimensions: 8 in. L x 6 1/2 in. D x 9 5/8 in. H  
 Lead Lining: 3/16 in. under lid and inside shield. 1/16 in. inside nose piece.

### FEATURES

- ◆ Full lead lining at or above recommended levels.
- ◆ Leaded oxygen tube connector for protection at oxygen inlet.
- ◆ Nebulizer protected by lead wall inside shield.
- ◆ Lead lined nose piece for protection at mouthport opening.
- ◆ Aluminum base with rubber feet to protect surfaces.
- ◆ Detachable stand for use with Universal Mobile Cabinet™.
- ◆ Drop-in kit installation for ease of use.
- ◆ Powder coated exterior for ease of cleaning.



| Catalog No.     | ORDERING INFORMATION   | Qty   |
|-----------------|--|-------|
| <b>AV-400+</b>  | Aero/Vent™ Plus Kit, with Single Tube, HEPA Filter and scuba style Safety Shield™ Mouthpiece | 24/cs |
| <b>AV-400+M</b> | Aero/Vent™ Plus Kit with Single Tube, HEPA Filter and Air-Cushioned Mask                     | 24/cs |
| <b>AV-400+V</b> | Aero/Vent™ Plus Kit for Ventilator Dependent Patients  | 6/cs  |
| <b>AV-500</b>   | Aero/Vent™ Max Kit with Two Tubes, HEPA Filter and scuba style Safety Shield™ Mouthpiece     | 24/cs |
| <b>AV-500M</b>  | Aero/Vent™ Max Kit with Two Tubes, HEPA Filter and Air-Cushioned Mask                        | 24/cs |
| <b>AV-501A</b>  | Aero/Vent™ Max Lead Shield   | Each  |
| <b>IV-605</b>   | Oxygen Tubing with Secure-Fit Connector  | 3/pk  |

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## AERO/VENT™ MAX: ENHANCED ADHERENCE TO ALARA AND AUC\*

\*ALARA: As Low As Reasonably Achievable  
AUC: Appropriate Use Criteria

### Improvement in Patient Care

- ◆ Rapid dosing in approximately 3 minutes improves patient compliance.
- ◆ Used with SPECT for better diagnostic images.
- ◆ Unidirectional airflow shortens dosing time, maintains optimal particle size until inhalation, and eliminates breathing resistance to support shallow breathers.
- ◆ Normal tidal breathing, as opposed to deep breathing or breath holding, reduces possibility of hot spots, central deposition and coughing.
- ◆ Fine particles ( $.28\mu\text{M}$ ) are delivered quickly and provide superior lung deposition for clear, sharp images.
- ◆ Available scuba-style Safety Shield™ Mouthpiece reduces mouthpiece slippage and possible leakage from the corners of the mouth. The snap on cap is used to collect saliva during removal, for a quick and safer disposal.
- ◆ Complete kits with air cushioned face mask available for coughing patients or those unable to use a mouthpiece and nose clip.

### Improvement in Radiation Safety

- ◆ Faster dosing minimizes time for possible exposure.
- ◆ Lead shield is completely lead lined at or above recommended levels.
- ◆ Nebulizer is fully contained inside kit and shielded by internal lead divider.
- ◆ External lead lined nose piece provides protection at mouthport opening.
- ◆ Oxygen tubing connects to leaded adapter to minimize the risk of exposure at oxygen inlet.
- ◆ Completely closed system reduces the chance of escape by contaminated aerosols.
- ◆ Scuba-style Safety Shield™ Mouthpiece reduces possible leakage from the corners of the mouth. The snap on cap is used to collect saliva during removal, for safer disposal.
- ◆ HEPA filter provides >99.97% trapping efficiency and has no external port opening.

### Other Benefits

- ◆ Set-up is quick and dosing rapid, thereby saving valuable tech time.
- ◆ Shield may be easily cleaned/disinfected between patients.
- ◆ Special kits for ventilator dependent patients available in small case of just 6 each.
- ◆ Aero/Vent™ Max may be used with DTPA, PYP, MDP, MIBI, Sulphur Colloid, etc. to accommodate pricing fluctuations and imaging needs..
- ◆ Secure-Fit Oxygen Tubing provides optimal oxygen flow for more consistent results.
- ◆ Complete kits may be ordered with Safety Shield™ Mouthpiece or air cushioned face mask.
- ◆ Aero/Vent™ Max is cleared by the United States Food and Drug Administration (FDA).
- ◆ For quality assurance, Aero/Vent™ Max is manufactured in an ISO certified facility in USA.



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