

# AERO/VENT™ MAX

Radioaerosol Lung Imaging System  
Model AV-500 Series

## BETTER DELIVERY, BETTER RESULTS

The two tube Aero/Vent™ Max Radioaerosol Lung Imaging System is the upgraded Aero/Vent™ Plus. This easy-to-use system combines drop-in kit convenience with maximum shielding and the Safety Shield™ Mouthpiece for unsurpassed protection. Unidirectional airflow provides dosing in approximately 2-3 minutes and minimal breathing resistance to improve throughput of critical patients. Additionally, the submicron particles of optimal size are maintained, thereby avoiding central airway deposition and providing superior radiotracer distribution for clear, sharp, physician-pleasing images.

Since 1987 the Aero/Vent™ has benefited physicians, nuclear technicians and patients alike. But don't take our word for it. Contact us today for a free trial of the Aero/Vent™ Max or special kit for ventilator dependent patients.



Aero/Vent™ Max with Mask  
#AV-500M

Two tubes for increased speed  
and spectacular image quality!



Aero/Vent™ Max #AV-500

## SAFER DELIVERY, (EVEN WITH POSSIBLE INFECTIOUS DISEASE) BETTER RESULTS

- ◆ Aero/Vent™ Max is a closed-circuit system. Kits are single use only and fully disposable.
- ◆ Kits come standard with scuba style Safety Shield™ Mouthpiece (#AV-500) to reduce contaminated leakage from the corners of a patient's mouth, and a cap for safer disposal.
- ◆ Kit with air cushioned face mask (#AV-500M) is available and securely seals patient's nose and mouth offering protection against coughs, contaminated exhalation and medicated aerosol particles.
- ◆ Lower tube takes contaminated exhalation or coughs directly to enclosed HEPA filter with 99.9% trapping efficiency.
- ◆ Patient exhalation never touches internal nebulizer or oxygen inlet.
- ◆ Normal tidal breathing is required. No deep breathing or breath holding is needed as they may invoke coughing.
- ◆ Unidirectional air flow virtually eliminates breathing resistance and supports shallow breathing patients.
- ◆ During exhalation, upper tube fills with fresh aerosol mist, allowing each inhaled breath to be fully medicated and drug delivery to be faster.
- ◆ Two tube systems avoid the humidity and immediate particle growth that occur in single tube systems, thereby maintaining optimally sized fine particles until inhalation for superior lung deposition and image quality.
- ◆ Special kits for ventilator patients (#AV-400+V) fit all standard 15mm endotracheal and tracheotomy tubes.
- ◆ Shield's lead lining surpasses recommended levels.
- ◆ 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 99.9% efficiency
Tubing:	Expandable from 6-24 inches for easy patient positioning upright or supine.
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.

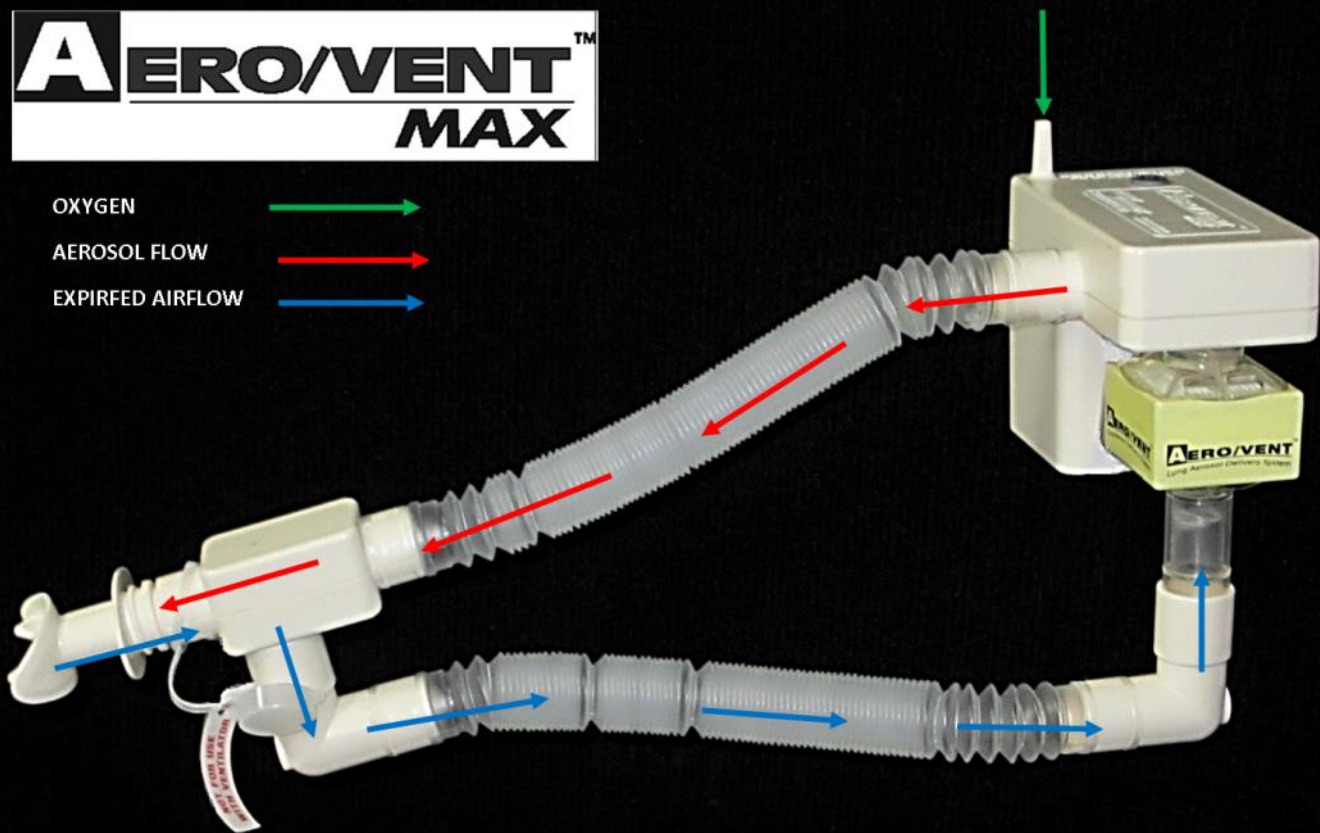


Kits may be ordered with Air-Cushioned Facemask.



# 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. For convenience, the Aero/Vent™ Max shield may be used on a table top or with the proprietary Universal Mobile Cabinet™ with optional swing arm for getting close to a patient.

### 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.
- ◆ Use on table top or with proprietary Universal Mobile Cabinet™.
- ◆ Aluminum base with rubber feet to protect surfaces.
- ◆ Detachable stand for use with Universal Mobile Cabinet™.
- ◆ Drop-in kit installation for ease of use.



Catalog No.	ORDERING INFORMATION	Qty
AV-400+	Aero/Vent™ Plus Kit, with Single Tube, HEPA Filter and scuba style Safety Shield™ Mouthpiece	24/cs
AV-400+M	Aero/Vent™ Plus Kit with Single Tube, HEPA Filter and Air-Cushioned Mask	24/cs
AV-400+V	Aero/Vent™ Plus Kit for Ventilator Dependent Patients	6/cs
AV-500	Aero/Vent™ Max Kit with Two Tubes, HEPA Filter and scuba style Safety Shield™ Mouthpiece	24/cs
AV-500M	Aero/Vent™ Max Kit with Two Tubes, HEPA Filter and Air-Cushioned Mask	24/cs
AV-501A	Aero/Vent™ Max Lead Shield	Each
IV-605	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.
- ◆ Two tube kits provide unidirectional airflow which minimizes breathing resistance even for shallow breathers, increases speed of dosing, and maintains the optimal particle size.
- ◆ Normal tidal breathing, as opposed to deep breathing or breath holding, reduces the possibility of hot spots, central airway deposition or coughing.
- ◆ Fine particles (.28µM) are delivered quickly and provide superior lung deposition for clear, sharp images.
- ◆ Scuba-style Safety Shield™ Mouthpiece comes standard and reduces the possibility of slippage and 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 are available for patients unable to use a mouthpiece and/or 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 greater than 99.9% trapping efficiency and has no external port opening.

## Other Benefits

- ◆ Aero/Vent™ Max. features drop-in kit convenience and is easy to use, thereby saving valuable tech time.
- ◆ Special kits for ventilator dependent patients are available. Kits come complete, use the standard lead shield without adaptation and come in a small case of just 6 each.
- ◆ Aero/Vent™ Max. may be used with DTPA, PYP, 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 air-cushioned face mask.
- ◆ Radioaerosol kits may be ordered individually or by the case.
- ◆ Aero/Vent™ Max. is cleared by the FDA (United States Food and Drug Administration).
- ◆ For quality assurance, Aero/Vent™ Max is manufactured in an ISO certified facility in USA.



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