

Nebulizer Delivery Kit with Animal Holder



Includes:

- Nebulizer Control Module with Small VMD Nebulizer Unit
- Acrylic Nebulizer Adapter
- Animal Holder with Integrated Nose Cone
- Delivery Tubing
- Assorted Fittings

Setup:

1. Connect the delivery tubing to either side of the nebulizer adapter.
2. Using one of the assorted fittings, connect the delivery tubing to a designated gas source

Note: A low flow (0.25LPM or less) is required to facilitate delivery of aerosol from the nebulizer adapter to the animal holder.

3. Connect the other end of the delivery tubing to the animal holder's integrated nose cone, as shown above.



4. Connect the Nebulizer Unit to the control module using the attached cable, and place inside the opening of the nebulizer adapter.

Instructions for Use:

- 1) Place the animal in the holder. Adjust the integrated nose cone position so that the animal is secure but comfortable.
- 2) Fill the Nebulizer Unit with solution to be aerosolized. Use a prefilled ampoule or syringe to add liquid into the filler port of the nebulizer, and close the filler cap.
- 3) Turn on air flow.
- 4) Power on the Nebulizer Control Module to begin aerosol delivery.
- 5) When the aerosol delivery is complete, turn off the air flow and power to the Control module before removing the animal and Nebulizer Unit.

Cleaning Instructions:

To ensure proper aerosolization, clean the nebulizer unit between each use and after sterilizing.

To clean:

- 1) Disconnect the control module and cable from the nebulizer unit, and remove the filler cap.
- 2) Clean all parts with warm water and a mild liquid detergent. Rinse thoroughly and air dry.
 - a. Do not use abrasive or sharp tools to clean the nebulizer unit.

To sterilize:

- 1) Disconnect the control module and cable from the nebulizer unit, and remove the filler cap.
- 2) Wrap parts and autoclave using steam sterilization pre-vacuum cycle, 132°C -135°C
- 3) (270°F - 275°F) for 3 - 4 minutes with drying cycle.
 - a. Do not autoclave the control module, adapter, tubing, or cables.



Troubleshooting:

Problem	Possible Cause	Solutions
The amber indicator light is illuminated on the Nebulizer Control Module, and the nebulizer is not aerosolizing.	<ul style="list-style-type: none">• Nebulizer is disconnected or faulty connection.• Nebulizer Unit needs to be cleaned.	<ul style="list-style-type: none">• Check all connections.• Clean the nebulizer unit following above cleaning instructions.
Aerosol is forming condensate in tubing.	<ul style="list-style-type: none">• Insufficient airflow.• Temperature variations in setup.	<ul style="list-style-type: none">• Airflow is required to facilitate movement of aerosol from the Nebulizer unit to the animal. Increase air flow up to 0.25LPM as needed.• Be sure temperature is stable across the delivery setup (avoid warming pads, surgical lights, etc.) and check that the solution to be aerosolized is at room temperature.
Liquid is not aerosolizing or is collecting at the bottom of the nebulizer adapter.	<ul style="list-style-type: none">• Nebulizer unit needs to be cleaned.• Solution to be aerosolized does not have sufficient surface tension to support aerosolization.	<ul style="list-style-type: none">• Clean the nebulizer unit following above cleaning instructions.• Verify proper solution. See included data sheet for more details.
Aerosolization is very slow, resulting in a longer than expected treatment time.	<ul style="list-style-type: none">• Nebulizer unit needs to be cleaned.• Nebulizer unit needs to be replaced.	<ul style="list-style-type: none">• Clean the nebulizer unit following above cleaning instructions.• Contact Kent Scientific.