

TROUBLESHOOTING AEROSOL ACCESSORIES

This guide helps verify correct configuration of flexiVent aerosol accessories and troubleshoot issues associated with aerosol generation.

HARDWARE CONNECTIONS

Make the following connections and ensure that the cables are firmly seated:

- » Insert Lemo Connector (red, Figure 1) in AUX Port 1 (back of flexiVent)
- » Insert Aeroneb Head Connector (blue, Figure 1) in Aeroneb Head port
- » White cable is well-connected to Aeroneb Controller



Figure 1. Aeroneb accessory hardware

NOTE: Due to lack of ionic charge, deionized water *does not* nebulize, please use phosphate-buffered saline (PBS).

AERONEB CONTROLLER STATUS

There are two LED lights on the Aeroneb Controller, please note the following:

- » Power LED (red, Figure 2) illuminates with a solid blue light when the flexiVent is powered-on
- » Nebulization LED (blue, Figure 2) flashes a blue light ONLY when nebulization is active, ie. mist is generated



Figure 2. Aeroneb Controller status LED lights

SOFTWARE CONSIDERATIONS

Please follow the instructions below:

- 1. Launch the flexiWare software and enter an Experimentation Session
- Select an Aeroneb associated template, marked by AN (example *FlexiVent FX Mouse AN* in red, Figure 3)

experiment Template Selection	la l		
Title	Instrument Family	Created	Status
FlexiVent FX-Mouse Default	flexiVent FX	09/10/20 14:27:24	Current
FlexiVent FX-Mouse OX	flexiVent FX	09/10/20 14:27:29	Current
FlexiVent FX-Mouse AN	flexiVent FX	09/10/20 14:27:34	Current
FlexiVent FX-Mouse AN-OX	flexiVent FX	09/10/20 14:27:40	Current
FlexiVent FX-Mouse AN-EKG	flexiVent FX	09/10/20 14:27:46	Current
FlexiVent FX-Mouse AN-VS	flexiVent FX	09/10/20 14:27:53	Current
FlexiVent FX-Mouse AN-NPFE	flexiVent FX	09/10/20 14:28:01	Current
FlexiVent FX-Mouse AN-NPFE-EKG	flexiVent FX	09/10/20 14:28:10	Current
FlexiVent FX-Rat Default	flexiVent FX	09/10/20 14:28:15	Current
FlexiVent FX-Rat AN	flexiVent FX	09/10/20 14:28:21	Current
FlexiVent FX-Rat AN-EKG	flexiVent FX	09/10/20 14:28:27	Current
FlexiVent FX-Rat AN-VS	flexiVent FX	09/10/20 14:28:34	Current

Figure 3. Template selection

- 3. During Aeroneb Priming, hold and visually inspect the Aeroneb Head, note the following:
 - » Aeroneb Head generates aerosol/mist



- » Nebulization LED flashes when mist is generated
- 4. From an experimentation session, please *right* click in the **Tasks** docker and select *Show All Hidden Tasks* (Figure 4)



Figure 4 . Task Docker – Show All Hidden Tasks

5. Click Nebulizer Task Properties (red, Figure 5)



Figure 5 . Nebulizer – Task Properties

6. In the Task Properties panel, under the *Nebulizer* section, verify that the *Collector Task* is listed as *Dose Response* (see Figure 6).

General				
Title	Nebulizer			
Description	Description			
Collector Task	Dose Response			
Manual Stop Control				
Display				
Show dataset collection view				
Show datasets for this task using	Waveform View			
After executing this perturbation, activate	Nothing (Leave display as is)			
	Title Description Collector Task Manual Stop Control Display Show dataset for this task using After executing this perturbation, activate	Seneral Trite Nebulizer Description Collector Task Collector Task Dose Response Manual Stop Control Dosebage Show dataset collection view Show dataset collection view Show dataset sfor this task Waveform View using After executing this performation, activate		

Figure 6 . Collector Task – Dose Response

7. In the Task Properties panel, under the *Digital Outputs* section, verify that *Aeroneb* is listed and checked, below *Active Digital Outputs* (see Figure 7)

 Nebulizer Digital Outputs 	Digital Outputs Digital Outputs management			
- Aeroneb				
Open Calibration Analyzers	Add	Remove selected	Remove all inactive	
 Analyzers Tracheal Signals Analyzer 	Active Digital Outp	ıts		
Delivered Dose Analyzer	Aeroneb			

Figure 7. Digital Output – Aeroneb

NOTE: Should nebulization issues persist, please contact support for additional recommendations.



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