

Westmed presents ...

FIA™

“Fraction of *Inhalable* Aerosol”

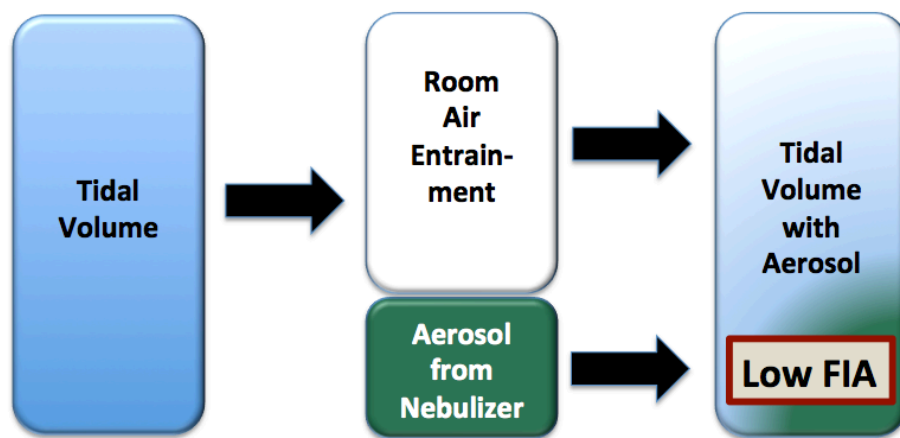
A common-sense approach to assessing nebulizer performance

Definition: FIA is the amount of aerosol *available* to the patient for inhalation. It is *expressed as a percentage of the tidal volume* and is dependent on the presence or absence of room air entrainment.

Air-Entraining Devices:

- Monaghan AeroEclipse™ II
- Pari LC® Sprint, LC® Star, LC® Plus
- Philips Respironics Sidestream®
- Salter NebuTech® HDN®
- “Tee”-type Nebulizers

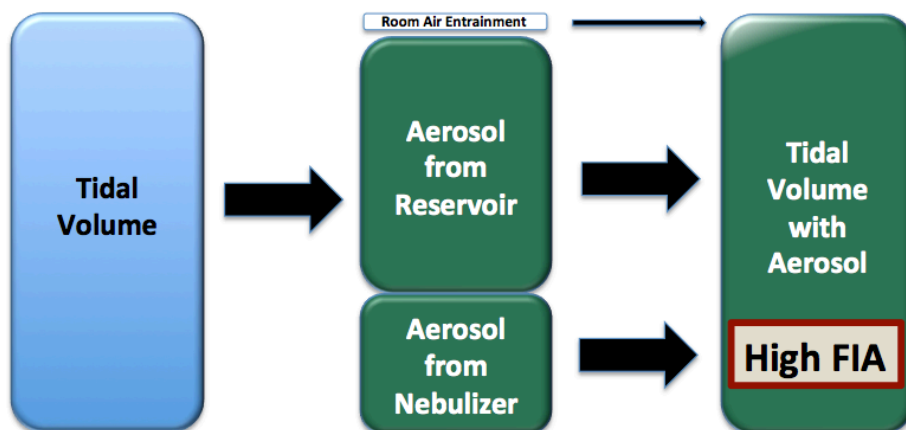
AeroEclipse™ is registered trademark of Monaghan Medical Corporation; LC® is a registered trademark of PARI Respiratory Equipment, Inc.; Sidestream® is a registered trademark of Philips Respironics; NebuTech® and HDN® are registered trademarks of Salter Labs.



Entrained Room Air Contains No Aerosol

Conservor Device:

Westmed Circulaire® II
High-Efficiency Aerosol
Drug Delivery System



Circulaire II Entrains Virtually No Room Air

Westmed
When Your Care Is Critical

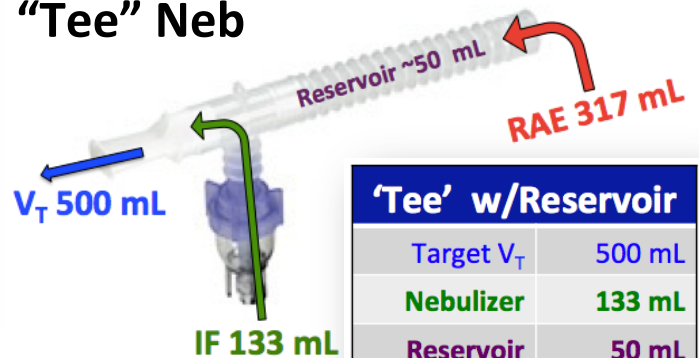
Device-specific examples on flip side.

FIA™

How does your nebulizer perform?

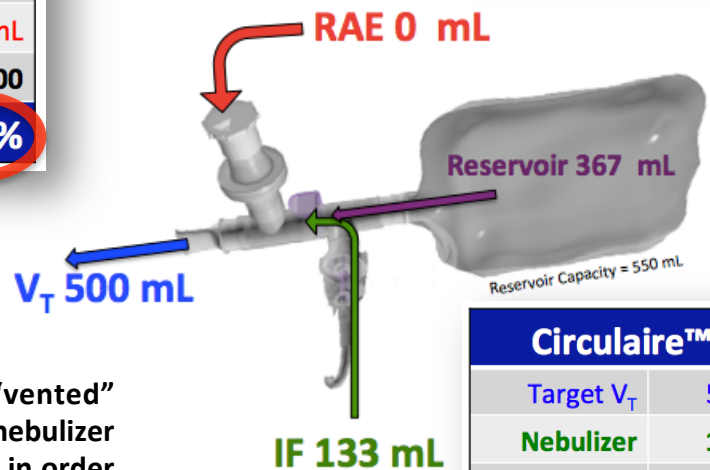
Conditions for All Examples			
Input Flow	8 L/min	I : E	1 : 3
	133 mL/sec	I-time %	25%
f	15 breaths/min	I-time	1 sec
V_T	500 mL	Inspiratory Flowrate	500 mL/sec
\dot{V}_E	7.5 L/min		

"Tee" Neb



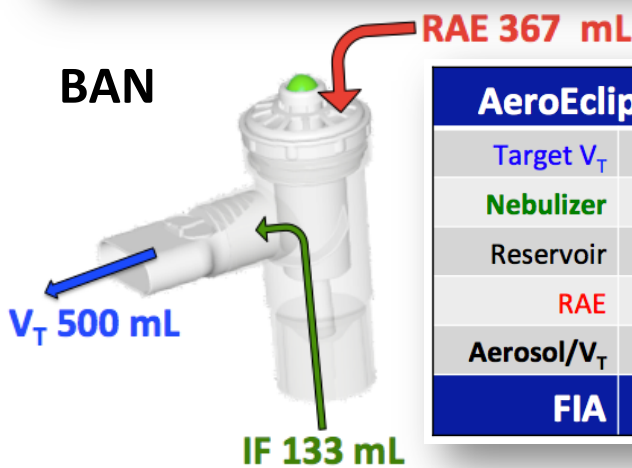
'Tee' w/Reservoir	
Target V_T	500 mL
Nebulizer	133 mL
Reservoir	50 mL
RAE	317 mL
Aerosol/ V_T	183/500
FIA	36.6%

Westmed Circulaire II



Circulaire™ II	
Target V_T	500 mL
Nebulizer	133 mL
Reservoir	367 mL
RAE	0 mL
Aerosol/ V_T	500/500
FIA	100%

BAN



AeroEclipse™ II	
Target V_T	500 mL
Nebulizer	133 mL
Reservoir	0 mL
RAE	367 mL
Aerosol/ V_T	133/500
FIA	26.6%

AeroEclipse™ is a registered trademark of Monaghan Medical Corporation

RAE = Room Air Entrainment

Breath-enhanced nebulizers, sometimes called "vented" nebulizers, perform similarly to the breath-actuated nebulizer (BAN), because they also deliberately entrain room air in order to assist evacuation of aerosol from the device. This does not increase aerosol drug delivery because entrainment of room air dilutes the aerosol.

*The higher the FIA ...
the higher the drug delivery.*

Westmed
When Your Care Is Critical



Circulaire II has the highest FIA in the industry !

Westmed, Inc.
5580 S. Nogales Highway
Tucson, AZ 85706
(800) 975- 7987
westmedinc.com