

Circulaire II Quick Reference

Operating Instructions for Continuous Nebulization with the Westmed #0339 Circulaire II High-Efficiency Aerosol Drug Delivery System

1. Fill the Hi-Flo MiniHEART® nebulizer with 30 mL of prescribed medication (e.g., albuterol, 0.5%) to render continuous nebulization at one of the dose rates for 0.5% albuterol shown in the following table:

Dose (mg/hr)	5	10	15	20
Albuterol, 0.5% (mL)	1.5	3	4.5	6
Saline, 0.9% (mL)	28.5	27	25.5	24

2. Set the Variable Expiratory Resistor* to full open position (60°). Set air or oxygen flowrate to 8 L/minute; if using Heliox, set flowrate to 10 L/minute.
* **WARNING: Do Not Operate Circulaire without the Variable Expiratory Resistor.**
3. Encourage the patient to breathe from the system using slow, deep breaths. Adjust non-vented” mask fit to assure leak-proof seal.
4. While the patient is breathing, adjust and titrate the Variable Expiratory Resistor to slightly slow exhalation so that the reservoir almost completely collapses at end of inspiration. Patient will entrain room air if bag collapses.
5. Continue the treatment as long as necessary. Refill as needed. The High Flow MiniHEART with a 30 mL fill volume will nebulize ~20 mL/hr (±20%) and will last ~90 minutes at 8 L/min flowrate.
6. Assess patient pre-, during, and post-treatment for side effects and response to therapy. Continuous nebulization can be discontinued when appropriate and the device operated with unit doses for intermittent treatments thereafter.

Variable Expiratory Resistor:



Full Open, 60°



Full “Closed,” 10°

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Component Parts of #0339 Circulaire System with Hi-Flo MiniHEART® Continuous Medication Nebulizer

Legend:

EF	Exhalation Filter
VER	Variable Expiratory Resistor
HFMH	High Flow MiniHEART Nebulizer
RB	Reservoir Bag
SE	Swivel Elbow
NVM	Non-Vented Mask

Benefits and Advantages of Circulaire II for Asthma Rescue Therapy in ED:

- ✓ *Rapid setup & initiation for Continuous Nebulization Therapy (CNT).*
- ✓ *Conservator System reduces drug waste & provides high FIO₂.*
- ✓ *~2 to 2.5 times greater drug mass delivery on each and every breath.*
- ✓ *Integral exhalation filter protects caregivers from drugs and droplets.*
- ✓ *Heliox-compatible @ 10 L/min with 80/20 or 70/30.*
- ✓ *Bill once on CPT 94640 and save labor time by not having to refill the nebulizer every 10 minutes.*

