

HEART[®]

NEBULIZERS

HEART[®]

High Output Nebulizer



- Efficient high flow (10 to 15 L/min)
- 240 mL reservoir
- Up to 8 hours of nebulization at 10 L/min
- Optimal 2-3 μm particles
- High aerosol output (up to 50 mL/hr)

MiniHEART-HiFlo[®]

High Output Nebulizer



- Efficient Hi-Flo (8 L/min)
- 30 mL reservoir
- 1 hour of nebulization at 8 L/min
- Optimal 2-3 μm particles
- Ideal for Emergency Department

UniHEART[™]

Universal Nebulizer



- Low flow nebulizer (2 to 4 L/min)
- 10 mL reservoir
- Over 2 hours of nebulization at 2 L/min
- IV port for easy refill
- Optimal 2-3 μm particles
- Ideal for Emergency Department

MiniHEART-LoFlo[®]

Low Flow Nebulizer



- Efficient low flow (1 to 2 L/min)
- 30 mL reservoir
- Over 3 hours of nebulization at 2 L/min
- IV port for easy refill
- Optimal 2-3 μm particles
- Ideal for patients on ventilator

Guidelines for Preparing Hourly Doses

Use the guidelines below ($\pm 20\%$) for one hour of nebulization. Example using HEART: For prescribed dose of 10 mg/hr @ 15L/min flow – Add 2 mL medicine (5mg/mL) to 48 mL saline for 50 mL/hr output. For multiple hours of operation, multiply by the number of hours desired. If the flow is reduced to 10 L/min on this solution, the dose is reduced to 6 mg/hr.

These guidelines are no substitute for the good clinical judgment of the user.



HEART®

| Flow Rate = Output | 10L/min = 30 mL/hr | | | 15L/min = 50mL/hr | | |
|--|--------------------|----|----|-------------------|----|----|
| Dose (mg/hr) | 5 | 10 | 15 | 5 | 10 | 15 |
| Medicine 5 mg/mL (mL) | 1 | 2 | 3 | 1 | 2 | 3 |
| Saline (mL) | 29 | 28 | 27 | 49 | 48 | 47 |
| Dose (mg/hr) decreased after Reducing flow from 15 to 10 L/min | 3 | 6 | 9 | 5 | 10 | 15 |

MiniHEART-HiFlo®



| Flow Rate = Output | 8L/min = 20 mL/hr | | |
|-----------------------|-------------------|----|----|
| Dose (mg/hr) | 5 | 10 | 15 |
| Medicine 5 mg/mL (mL) | 1 | 2 | 3 |
| Saline (mL) | 19 | 18 | 17 |

UniHEART™



| Flow Rate = Output | 2L/min = 4mL/hr | | | 4 L/min = 9 mL/hr | | |
|-----------------------|-----------------|----|----|-------------------|----|----|
| Dose (mg/hr) | 5 | 10 | 15 | 5 | 10 | 15 |
| Medicine 5 mg/mL (mL) | 1 | 2 | 3 | 1 | 2 | 3 |
| Saline (mL) | 3 | 2 | 1 | 8 | 7 | 6 |

MiniHEART-LoFlo®



| Flow Rate = Output | 2L/min = 8mL/hr | | | | | |
|-----------------------|-----------------|---|-----|----|------|----|
| Dose (mg/hr) | 2.5 | 5 | 7.5 | 10 | 12.5 | 15 |
| Medicine 5 mg/mL (mL) | 0.5 | 1 | 1.5 | 2 | 2.5 | 3 |
| Saline (mL) | 7.5 | 7 | 6.5 | 6 | 5.5 | 5 |

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