

# HEART<sup>®</sup>

## NEBULIZERS

### HEART<sup>®</sup>

#### 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  $\mu\text{m}$  particles
- High aerosol output (up to 50 mL/hr)

### MiniHEART-HiFlo<sup>®</sup>

#### High Output Nebulizer



- Efficient Hi-Flo (8mL/min)
- 30 mL reservoir
- 1 hour of nebulization at 8 L/min
- Optimal 2-3  $\mu\text{m}$  particles
- Ideal for Emergency Department

### UniHEART<sup>™</sup>

#### 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  $\mu\text{m}$  particles
- Ideal for Emergency Department

### MiniHEART-LoFlo<sup>®</sup> 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  $\mu\text{m}$  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<sup>®</sup>

| 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<sup>®</sup>



| 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<sup>™</sup>



| 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<sup>®</sup>



| 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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