

BD CAREFUSION ALARIS PUMP MODULE 8100



ABOUT

The **BD Alaris Pump Module 8100** is used in the delivery of large-volume fluids, medications, blood, and blood products using continuous intermittent delivery for adult, pediatric, or neonatal patients. **Infusion delivery** can occur via clinically acceptable routes of administration (e.g., intravenous, intra-arterial, subcutaneous, epidural, enteral, or irrigation of fluid spaces). Clinicians can attach up to four pump modules to a single Point of Care (PCU) Unit allowing four different infusions. The Alaris 8100 modules can be attached to either side of the Alaris PC unit to create the desired configuration.

FEATURES

- **Built-in LCD displays the IV fluid name, dose, and rate**, providing clear and continuous information for healthcare providers.
- **Indicators that display channel status are red for alarm, yellow for pause, and green for infusing**, offering easy-to-understand visual cues for the infusion process.
- **Set-based, free-flow protection featuring the SmartSite needle-free valves**, ensuring safety and preventing unintended free-flow of fluids.
- **Sets can be used for gravity infusion**, offering versatile options for fluid delivery.
- **Designed for bag, bottle, or syringe delivery**, enabling flexible infusion methods based on patient needs.
- **Supports primary and secondary "piggyback" delivery**, allowing for efficient administration of multiple fluids simultaneously.



SPECIFICATIONS



DIMENSIONS

Height: 8.9 in (22.6 cm)

Width: 3.3 in (8.4 cm)

Depth: 5.5 in (14 cm)

Weight: 2.5 lb (1.13 kg)

ACCUMULATED AIR WINDOW

Single Bolus Setting: 50; Volume Window (mL): 2.8;
Air That Causes Alarm: 10%

Single Bolus Setting: 75; Volume Window (mL): 8.0;
Air That Causes Alarm: 20%

Single Bolus Setting: 250; Volume Window (mL): 8.0;
Air That Causes Alarm: 30%

Single Bolus Setting: 500; Volume Window (mL):
12.0; Air That Causes Alarm: 30%

BOLUS VOLUME, MAXIMUM AFTER OCCLUSION

Pressure Limit (mmHg): 50; Rate (mL/h): 25; Bolus
Volume (mL): =0.3

Pressure Limit (mmHg): 525; Rate (mL/h): 25; Bolus
Volume (mL): =0.6

CRITICAL VOLUME

The maximum over-infusion which can occur in the
event of a single fault condition is 0.6 mL.

FLUID INGRESS PROTECTION

IPX1, Drip Proof

MAXIMUM INFUSION PUMP PRESSURE

654 mmHg (Maximum Occlusion Alarm Threshold
plus tolerance)

IV PUMP RATE ACCURACY

±5% at rates between 1 and 999 mL/h; ±5.5% at
rates <1 mL/h, 95% of the time with 95% confidence,
under the conditions listed below.

Infusion Rate Range: 0.1 - 999 mL/h

Ambient Temperature: 68 ±4° F (20 ±2° C)

Source Container Height: 20 inches above top

Test Solution: Distilled Water

Distal Back pressure: 0 mmHg (0 kPa)

Needle: 18 gauge

Administration Set Model: 2210

INFUSION OF AIR, MEANS TO PROTECT THE PATIENT FROM

Ultrasonic Air-in-Line Detection: Maximum single
bolus size = selectable 50, 75, or 250 microliters
nominal (500 microliters in Anesthesia Mode)

SPECIFICATIONS



IKVO (KEEP VEIN OPEN) RATE _____

Factory Default Setting is 1 mL/h if the set rate is 1 mL/h or above; or set rate, if the rate is 0.9 mL/h or below.

KVO SELECTION RANGE: _____

KVO rate can be set in System Configuration from 0.1 - 20 mL/h in 0.1 mL/h increments.

OCCLUSSION ALARM THRESHOLDS: _____

Pumping Mode: 525 mmHg at rates =30 mL/h
Varying level based on rate and patient back-pressure at rates <30 mL/h.

Selectable Mode: The user selected, 50 - 525 mmHg in 25 mmHg increments.

OPERATING PRINCIPLE: _____

Positive displacement

SHOCK PROTECTION: _____

Type CF, Defibrillator Proof

ENVIRONMENTAL _____

Operating

Temperature Range: 41 to 104°F (5 to 40°C)

Relative Humidity: 20 to 90%

Atmospheric Pressure: 525 to 4560 mmHg (700 to 6080 hPa)

Storage / Transport

Temperature Range: -4 to 140°F (-20 to 60°C)

Relative Humidity: 5 to 85%

Atmospheric Pressure: 375 to 760 mmHg (500 to 1013 hPa)