

# Alaris® VP plus Volumetric Pump



Dedicated Safety Disposables\*

## Standard DEHP free sets with Alaris® safety and roller clamp

- 70593** • 15 µm filter • \*27 ml • \*\*300 cm
- 70693E** • 1 lower SmartSite® needle free valve port • 15 µm filter • \*24 ml • \*\*265 cm
- 70643** • Light resistant • 15 µm filter • \*27 ml • \*\*300 cm
- 70793E** • 2 SmartSite® needle free valve ports • No filter • \*25ml • \*\*265 cm

## Neonatal and paediatric DEHP free sets with Alaris® safety and roller clamp

- 70103E** • Burette (150ml) • 2 SmartSite® needle free valve port (1 on Burette) • No Filter • \*22ml • \*\*280 cm
- 70096** • Low Priming Volume • 15 µm filter
- 70641** • Low Priming Volume • Light resistant • 15 µm filter
- 70096E** • Low Priming Volume • 2 Lower SmartSite® needle free valve ports • 0.2 µm filter

## Oncology DEHP free sets with Alaris® safety and roller clamp

- 70955E** • 2 Spikes, SmartSite® needle free valve port • 15 µm filter • \*26 ml • \*\*260 cm
- 70950E** • Quattro Set, 5 SmartSite® needle free valve ports • 15 µm filter • \*26 ml • \*\*285 cm
- 70952E** • Quattro Set, 5 SmartSite® needle free valve ports • Light resistant • 15 µm filter • \*26 ml • \*\*285 cm
- 70951E** • Duo Set, 3 SmartSite® needle free valve ports • 15 µm filter • \*26 ml • \*\*280 cm
- 70954E** • Duo Set, 3 SmartSite® needle free valve ports • Light resistant • 15 µm filter • \*26 ml • \*\*280 cm

## Blood DEHP free set with Alaris® safety and roller clamp

- 70895** • 200 µm filter • \*29 ml • \*\*300 cm
- 70896** • 2 Spikes Blood Set • 200 µm filter • \*30 ml • \*\*295 cm

## Low sorbing DEHP free sets with Alaris® safety and roller clamp

- 70953** • Low Sorbing set • 15 µm filter
- 70033E** • Low Sorbing set • 2 SmartSite® needle free valve ports • 0.2 µm filter

## Total Parenteral Nutrition DEHP free with Alaris® safety and roller clamp

- 70123E** • 2 SmartSite® needle free valve ports • 1.2 µm filter • Light resistant • \*27ml • \*\*275 cm

## Secondary infusion (Piggy Back) DEHP free set

- 70093E** • 2 SmartSite® needle free valve ports • Backcheck Valve • 15 µm filter • \*25ml • \*\*270 cm



- All set have:
- Proprietary Alaris® Safety clamp
  - In Line Pressure Monitoring sensor disk

\* Priming volume - \*\*Length of the set

\* As of the date of communication not all above sets are CE marked. CareFusion may not make all above products available for sale.

CareFusion Australia 316 Pty Ltd  
Unit 3/167 Prospect Highway  
Seven Hills  
NSW 2147  
Australia  
+61 2 9624 9000 tel  
+61 2 9624 9034 fax

CareFusion Denmark  
Firskovej 25B  
2800 Lyngby  
Denmark  
+4570203074  
+4570203098

CareFusion NZ 313 Ltd  
14B George Bourke Drive  
Mt. Wellington  
Auckland  
New Zealand  
+64 9 270 2420 tel  
0508 422734 freephone  
+64 9 270 6285 fax

CareFusion Finland  
Äyritie 8B  
01511 Vantaa  
Finland  
+358 20 7871090



CareFusion UK  
The Crescent  
Jays Close  
Basingstoke  
Hampshire RG22 4BS  
United Kingdom  
0800 917 8776 freephone  
+44 (0)1256 330860 fax

CareFusion Norway  
Fjordveien 3  
1363 Høvik  
Norway  
+4766987600

CareFusion  
Unit 2 Oude Molen  
Business Park  
Oude Molen Road  
Ndabeni  
Cape Town 7405  
South Africa  
+27 21 510 7562 tel  
+27 21 510 7567 fax



CareFusion International Headquarters  
A-One Business Centre  
Zone d'activités Vers-la-Pièce n° 10  
1180 Rolle  
Switzerland  
+41 21 556 30 00 tel  
+41 21 556 30 99 fax

CareFusion  
Hammarbacken 4B  
SE-191 24 Sollentuna  
Sweden  
+46 8 544 43 200 tel  
+46 8 544 43 225 fax



© 2013 CareFusion Corporation or one of its subsidiaries. All rights reserved.  
Alaris and Guardrails are registered trademarks of CareFusion Corporation or one of its subsidiaries.  
0000CF01580.

# Early Clinical Intervention

Alaris® VP plus Guardrails® Volumetric pump

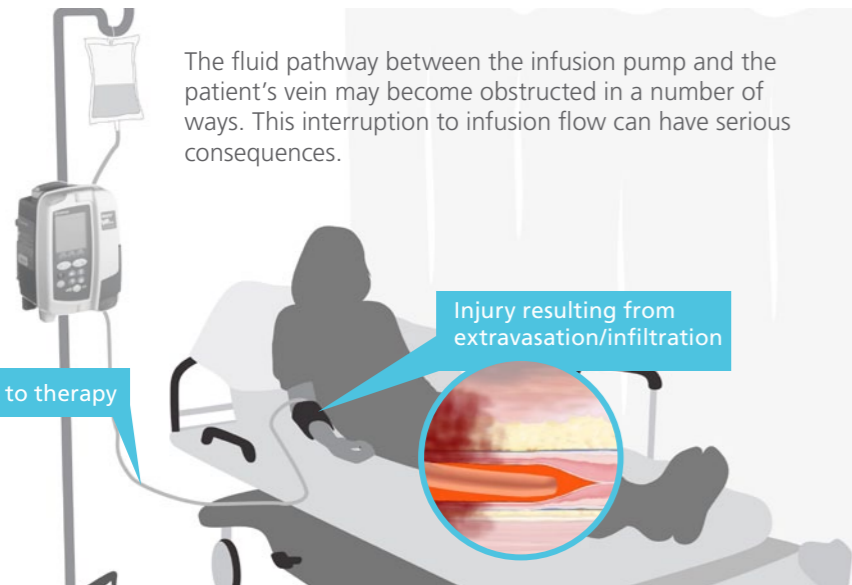


[carefusion.com](http://carefusion.com)



# Alaris® VP plus Guardrails® Volumetric Pump

## Challenge of Infusion



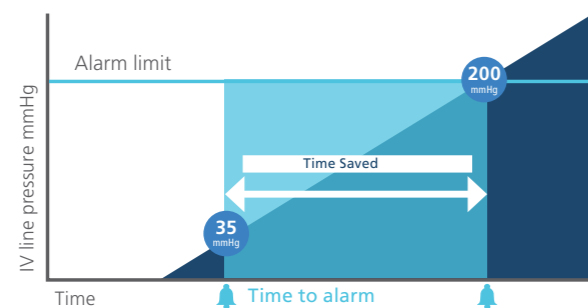
The fluid pathway between the infusion pump and the patient's vein may become obstructed in a number of ways. This interruption to infusion flow can have serious consequences.

### Consequences of interruption to flow\*:

- Plasma concentration of the drug may drop to subtherapeutic levels rapidly.
- Patients may suffer serious consequences when an extravasation of an irritant drug occurs.

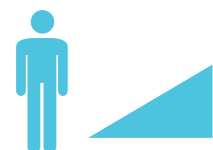
\* non exhaustive

## Fast time to Alarm



The earlier you are alerted to an infusion interruption, the earlier you can intervene. The time to an occlusion alarm is key when managing interruptions to flow and is dependent on pressure monitoring and alarm settings.

## Monitoring In Line Pressure



Infusion monitoring information promotes increased vigilance and early intervention. Continuous monitoring of the infusion In Line Pressure trend can assist clinicians to identify early infusion pressure deviations. These deviations can prompt the need for early clinical intervention to prevent potential complications.

## Early Clinical Intervention with In Line Pressure Monitoring

- identify pressure trends that could indicate an emerging adverse event, minimising its potential consequences and any resultant costs
- maintain consistency of drug delivery, optimizing the therapeutic effects of IV therapy

### MONITORING IN LINE PRESSURE

TRENDS generates trending graphs to support early clinical intervention.



### LARGE DISPLAY

Line Pressure displays the current Line Pressure value in mmHg.

### FAST TIME TO ALARM

DOWNSTREAM PRESSURE ALARM Limits can be set to achieve the lowest optimum alarm level, and fastest time to alarm.

Optimum pressure Alarm levels can be set both automatically and/ or manually. Pressure levels can be adjusted incrementally in 1 mmHg steps.

## Guardrails® CQI Best Practice Improvement

CareFusion infusion devices are also part of a broader medication safety system. This includes the Guardrails Dose Error Reduction System which can assist clinicians to:

- Protect** from harmful IV medication error
- Standardise** drug protocols
- Measure** and **Improve** practice

**Smart Software\***  
Customized software facilitating standardized drug protocols.

**Smart Pumps**  
Infusion hard and soft limits, alerting to potential dosing errors.

**Smart Practice\*\***  
CQI reports providing clinical insight to support practice improvements.

**Smart Outcomes**  
Consistent control of dose and rate limits. Measureable improvements.

\* Available separately

\*\* Multiple reports available

## Alaris® VP plus Guardrails® Volumetric Pump Specifications

### Rate Range

- 0.1 - 99.9 ml/h in steps of 0.1 ml/h • 100 - 999 ml/h in steps of 1 ml/h
- 1000 - 1200 ml/h in steps of 10 ml/h

### VTBI • VTBI over Time

- 1 - 9999 ml

### Rate Accuracy

- 5%, achieved under nominal conditions (See Directions For Use - DFU)

### Bolus

- Bolus Rate: 10 - 1200 ml/hr, 10 ml/hr steps
- Bolus Volume displayed: 0.0 - 100 ml

### KVO

- Rates: 0.1 - 20 ml/hr

### Secondary Infusion

- 1 - 1200 ml/h in steps of 1 ml/h

### Other features

- VTBI Done, Dose Rate Calculation, Patient Weight Range, Prime, NEOI, Titration, Alarm ramping, Auto Set Pressure, Auto pressure, adjustable Audio Volume (low, medium & high), call back, standby mode, quiet mode, rate lock, drug override mode

### Alarms, Warnings & Prompts

- Alert Indicators: red and amber
- Audible alarm and display messaging (List available in the DFU)

### Air In Line detection

- Sensor: Ultrasonic
- Alarms: - Single Bubble: 50µl, 100µl, 250µl or 500µl (configurable) - Bubble accumulation: 1ml over a 15 minute window

### Pressure

- Pressure detection: Direct In-line pressure measurement with sensor disc and Strain Gauge
- Occlusion alarm level settings: 1- 800mmHg in 1 mmHg steps

### Patient pressure display

- Value in mmHg with 12.5 Hours pressure trend display graph

### Drug

- Drug Names: 100 per profile
- Profiles: 30

### Limits

- Hard and Soft limits

### Predefined bag size

- 3000ml, 2000ml, 1500ml, 1000ml, 500ml, 250ml, 200ml, 100ml, 50ml

### Free flow protection

- All infusion sets incorporate the proprietary Alaris Safety Clamp

### Display

- Large, wide angle LCD display • Legible up to 3 meters

### Pumping Mechanism

- 12 Finger Peristaltic

### Dimensions

- Weight: 2.6 kg
- 225mm (Height) x 148mm (Width) x 158mm (Depth)

### Power supply

- Voltage: 100 - 230VAC, 50 - 60Hz, 60VA (Maximum)

### Battery

- Rechargeable NiMH
- Battery Life: 5.5 hrs @ 25 ml /h
- Recharge Time: 2.5hrs to 95% • Battery Usage Indicator
- Battery Time: Battery charge level

### Classification

- IPX3 • Class I, Type CF (Defibrillation-proof)

### PDM interface

- RS232 / IRDA