

## Infinity® CNAP™ SmartPod®

The Infinity® CNAP™ (Continuous Noninvasive Arterial Pressure) SmartPod® provides a simple, accurate method for measuring systolic, diastolic and mean blood pressure. Simply slip the sensor cuff onto the patient's fingers. Once applied, the patient monitor continuously displays the arterial pressure values and pressure waveform.



The CNAP solution provides the clinical utility (i.e., beat-to-beat vigilance) of the invasive arterial line – with the user convenience and simplicity of a noninvasive cuff. It bridges the gap in many situations when NBP is not enough, and an arterial line is just too invasive and complicated.

### Provides real-time hemodynamic management

The system works by utilizing photoplethysmograph sensors (light emitting diode and detector) integrated into the sensor cuff. While the sensor detects changes in blood volume based on the amount of light transmitted through the finger, the cuff pressure closely follows the instantaneous pulsatile blood pressure changes in the finger arteries. Blood pressure can then be calculated beat-to-beat, after calibration with the built-in standard oscillometric measurement (NBP) of the monitor – and a high resolution, real-time arterial pressure waveform is displayed.

### FEATURES

- Simple application
- Reusable sensor cuffs – saves on costly disposables
- Supported during in-hospital transport with Pick and Go® – conveniently mounted on an IV pole
- Improved time to intervention – provides continuous measurements without requiring an arterial line
- High fidelity trending data – allow a comprehensive view of the patient's status
- Adjustable alarm limits

### TECHNICAL DATA

#### Measuring Capabilities

Measurement method	Vascular Unloading Technique
Measurement range	Systolic: 40 – 250 mmHg (5.3 – 33.3 kPa) Diastolic: 30 – 210 mmHg (4 – 28 kPa) Mean: 35 – 230 mmHg (4.66 – 30.7 kPa)
Display resolution	1 mmHg (0.1 kPa)
Accuracy	±5 mmHg (0.6 kPa)



**Infinity CNAP SmartPod**  
Measures arterial pressure values noninvasively



**CNAP sensor cuffs**  
Available in three sizes

## CONTINUING TECHNICAL DATA

### Measurement Calculation Interval

Inflation pressure	Default: 120 mmHg (16 kPa) Minimum: 30 mmHg (4 kPa) Maximum: 300 mmHg (40 kPa)
Over pressure limits	Pressure: 300 ±10 mmHg (40 kPa + 10% kPa) Response time: ≤3sec. Deflation time: (to reach < 15 mmHg) ≤15 sec.

### Trended Parameters and Duration

24 hour trends for CNAP-S, CNAP-D and CNAP-M on Infinity Delta, Delta XL or Kappa monitors

Alarms	User selectable alarm limits for CNAP-S, CNAP-M and CNAP-D
Waveforms	Pressure waveform

### PRODUCT SPECIFICATIONS

#### Physical Specifications

Size (Pod) (H x W x D)	48 x 132 x 137 mm (1.87 x 5.21 x 5.40 in.)
Weight	0.35 kg (0.78lb) (pod only)
Power source	Powered directly from monitor via pod communication port
Fixed key	CNAP Start/Stop – to deflate the CNAP sensor cuff on demand, or to initiate a CNAP measurement from the pod

#### Environmental Requirements

##### Temperature Range

Operating	5 °C to 45 °C (41 °F to 113 °F)
Storage	-20 °C to 60 °C (-4 °F to 140 °F)

##### Relative Humidity

Operating	10% to 95%, non-condensing
Storage	10% to 95% with packaging

### Atmospheric Pressure

Operating	485 to 795 mmHg (65 to 106 kPa)
Storage	375 to 795 mmHg (50 to 106 kPa)

### Standards

IEC 60601-1 (2nd edition) and applicable particular and collateral standards, IEC 60601-1-2:2007, Electromagnetic compatibility CISPR 11, Class B. IEC 60529:1989. The CNAP pod complies with the Medical Devices Directive (MDD) 93/42 EEC and bears the CE mark.

## ORDERING INFORMATION

Infinity CNAP SmartPod Kit **MS17075**  
Includes: CNAP pod, cuff controller, connection cable, cuff controller forearm strap, 1 small, 1 medium and 1 large sensor cuff, pod communication cable and universal pole mount.  
NBP cuffs and hoses should be ordered separately.

### Notes:

Infinity Delta/Delta XL/Kappa monitors equipped with VF7 or higher software support the CNAP pod.

Siemens SC7000, SC8000 and SC9000XL are also upgradeable to VF7 or higher with the requirements listed.

Siemens SC7000, SC8000 and SC9000XL monitors with software level below VF4 and the following hardware revisions require Memory Expansion Board (7494557): Siemens SC7000 below 14, SC8000 below 17, and SC9000XL below 6.

The Infinity CNAP SmartPod is available in selected markets. Contact your local sales representative for details and availability.

The Infinity CNAP SmartPod requires 510(k) review and is not available commercially in the US.

The Infinity CNAP SmartPod is not licensed in accordance with Canadian Medical Device Regulations.

CNAP is a registered trademark of CNSystems.

#### HEADQUARTERS

Draeger Medical AG & Co. KG  
Moislinger Allee 53–55  
23558 Lübeck, Germany

www.draeger.com

#### REGION EUROPE CENTRAL AND EUROPE NORTH

Draeger Medical AG & Co. KG  
Moislinger Allee 53–55  
23558 Lübeck, Germany  
Tel +49 451 882-0  
Fax +49 451 882-2080  
info@draeger.com

#### REGION EUROPE SOUTH

Draeger Médical S.A.S.  
Parc de Haute  
Technologie d'Antony 2  
25, rue Georges Besse  
92182 Antony Cedex  
Tel +33 1 46 11 56 00  
Fax +33 1 40 96 97 20  
dlmfr-contact@draeger.com

#### REGION MIDDLE EAST, AFRICA, CENTRAL AND SOUTH AMERICA

Draeger Medical AG & Co. KG  
Dubai Healthcare City  
P.O. Box 505108  
Dubai, United Arab Emirates  
Tel +971 436 24 762  
Fax +971 436 24 761

#### REGION ASIA / PACIFIC

Draeger Medical  
South East Asia Pte Ltd  
25 International Business Park  
#04-27/29 German Centre  
Singapore 609916  
Tel +65 6572 4388  
Fax +65 6572 4399  
asia.pacific@draeger.com

#### REGION NORTH AMERICA

Draeger Medical, Inc.  
3135 Quarry Road  
Telford, PA 18969, USA  
Tel +1 215 721 5400  
Toll-free +1 800 437 24 37  
Fax +1 215 723 59 35  
info.usa@draeger.com

#### Manufacturer:

Draeger Medical Systems, Inc.  
Telford, PA 18969, USA  
The quality management system at  
Draeger Medical Systems, Inc. is  
certified according to ISO 13485,  
ISO 9001 and Annex II.3 of Directive  
93/42/EEC (Medical devices).