

Infinity® PiCCO SmartPod®

Now you can monitor hemodynamic and volumetric parameters without a pulmonary artery catheter, using the Infinity® PiCCO SmartPod®. PiCCO technology uses quantitative parameters that are determined both intermittently through PULSION's transpulmonary thermodilution technique and continuously through arterial pulse contour analysis.



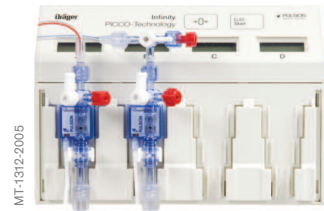
FEATURES

- Provides less invasive, beat-to-beat hemodynamic and volumetric monitoring
- Determines parameters both intermittently and continuously
- Integrates four invasive pressures and cardiac output

TECHNICAL DATA

SUPPORTED PARAMETERS

- Pulse Contour Cardiac Output (PCCO)
- Continuous Cardiac Index (PCCI)
- Stroke Volume (p-SV)
- Stroke Volume Index (p-SVI)
- Stroke Volume Variation (SVV)
- Systemic Vascular Resistance (p-SVR)
- Systemic Vascular Resistance Index (p-SVRI)
- Pulse Pressure Variation (PPV)
- Index of Left Ventricular Contractility (dPmax)¹
- Cardiac Output (p-CO)
- Cardiac Index (p-CI)
- Cardiac Function Index (CFI)
- Global End Diastolic Volume (GEDV)
- Global End Diastolic Volume Index (GEDVI)
- Extra Vascular Lung Water (EVLW)¹
- Extra Vascular Lung Water Index (EVLWI)¹
- Global Ejection Fraction (GEF)¹
- Pulmonary Vascular Permeability Index (PVPI)¹
- Arterial Pressure, Systolic, Diastolic and Mean (ART)
- Intrathoracic Blood Volume (ITBV)
- Intrathoracic Blood Volume Index (ITBVI)



Infinity PiCCO SmartPod

Integrates 4 invasive pressures and cardiac output using a single cable that connects the pod to the monitor.

CONTINUING TECHNICAL DATA**Parameters obtained from Pulse Contour Analysis****Pulse Contour Cardiac Output (PCCO)**

Method	Resistive strain gauge transducer and pulse contour analysis calibrated with transpulmonary thermodilution
Measurement range	0.25 to 25 l/min
Display resolution	0.01 l/min
Accuracy ²	<3%

Continuous Cardiac Index (PCCI)

Measurement range	0.01 to 15 l/min/m ²
Display resolution	0.01 l/min/m ²

Stroke Volume (p-SV)

Measurement range	1 to 250 ml
Display resolution	1 ml

Stroke Volume Index (p-SVI)

Measurement range	1 to 125 ml/m ²
Display resolution	1 ml/m ²

Stroke Volume Variation (SVV)

Measurement range	0 to 50%
Display resolution	1%

Systemic Vascular Resistance (p-SVR)

Measurement range	0 to 30,000 dyn·sec·cm ⁻⁵
Display resolution	10 dyn·sec·cm ⁻⁵

Systemic Vascular Resistance Index (p-SVRI)

Measurement range	0 to 30,000 dyn·sec·cm ⁻⁵ /m ²
Display resolution	10 dyn·sec·cm ⁻⁵ /m ²

Pulse Pressure Variation (PPV)

Measurement range	0 to 50%
Display resolution	1%

Index of Left Ventricular Contractility (dPmax)¹

Measurement range	200 to 5,000 mmHg/s
Display resolution	1 mmHg/s

Parameters obtained from Transpulmonary Thermodilution**Cardiac Output (p-CO)**

Measurement range	0.25 to 25 l/min
Display resolution	0.01 l/min
Accuracy ²	<1%

Cardiac Index (p-CI)

Measurement range	0.10 to 15.0 l/min/m ²
Display resolution	0.1 l/min/m ²
Accuracy	Co-efficient of variation <1%

Cardiac Function Index (CFI)

Measurement range	1.0 to 15.0 l/min
Display resolution	0.1 l/min

Global End Diastolic Volume (GEDV)

Measurement range	40 to 4800 ml
Display resolution	1 ml
Accuracy ²	<2%

Global End Diastolic Volume Index (GEDVI)

Measurement range	80 to 2,400 ml/m ²
Display resolution	1 ml/m ²

Extra Vascular Lung Water (EVLW)	
Measurement range	10 to 5000 ml
Display resolution	1 ml
Extra Vascular Lung Water Index (EVLWI)	
Measurement range	0 to 50 ml/kg
Display resolution	1 ml/kg
Global Ejection Fraction (GEF)¹	
Measurement range	1 to 99%
Display resolution	1%
Pulmonary Vascular Permeability Index (PVPI)¹	
Measurement range	0.1 to 10
Display resolution	0.1
Arterial Pressure, Systolic, Diastolic, Mean (ART) and Central Venous Pressure (CVP)	
Method	Resistive strain gauge transducer
Measurement range	0 to 300 mmHg
Display resolution	1 mmHg
Accuracy	± 1 mmHg or ± 3% (whichever is greater) exclusive of transducer
Zero balance range	± 200 mmHg
Intrathoracic Blood Volume (ITBV)	
Measurement range	50 to 6000 ml
Display resolution	1 ml
Intrathoracic Blood Volume (ITBVI)	
Measurement range	100 to 3000 ml/m ²
Display resolution	1 ml/m ²

PRODUCT SPECIFICATIONS

Trended parameters	p-CO ₂ , PCCI ³ , p-CI ³ , p-SVI, SVV, PVPI ¹ , GEF ¹ , PCCO, p-SVRI, EVLWI, GEDVI, p-SVR
CVP Value ³	Yes, user selectable – continuous direct measurement or manual entry
Physiological Calculations ³	Yes
Trend duration	24 hours for Delta, Delta XL and Kappa
Alarms	User selectable alarm limits for PCCO and PCCI

Physical Specifications

Power source	Powered directly from monitor via pod communication connection
Size H x W x D	140 x 205 x 60 mm (5.5 x 8.1 x 2.3 in.)
Weight	0.9 kg (1.9 lbs)
Connectors	Four invasive pressures, C.O., pod communication

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)
Humidity	
Operating	10% to 95%, non-condensing
Storage	10% to 95% with packaging
Pressure range	
Operating	485 to 795 mmHg (65 to 106 kPa)
Storage	375 to 795 mmHg (50 to 106 kPa)

CONTINUING TECHNICAL DATA

Standards

IEC 60601-1 (2nd edition) and applicable particular and collateral standards,
IEC 60601-1-2:2007, Electromagnetic compatibility CISPR 11, Class B.
IEC 60601-2-34:2001, Invasive blood pressure

ORDERING INFORMATION

Infinity PiCCO pod kit MS16734

includes:

- PiCCO Pod (universal pole mount and pod communication cable included)
- C.O. Catheter Cable
- C.O. Thermistor Cable
- C.O. Intermediate Cable
- HemoPod™ Adapter
- Pulsion pressure transducer to HemoPod Adapter Cable

Siemens SC 7000/SC 8000/SC 9000XL monitors with a software level below VF4 and the following hardware revision require a memory expansion board (7494557): Siemens SC 7000 below 14, SC 8000 below 17 and SC 9000XL below 6

Order from PULSION

Blood Pressure Transducer Kits

PULSION PV8115, PV8103 and PV8115CVP kits include PV4046 injectate temperature sensor housing
PULSIOCATH arterial thermodilution catheters for

- Femoral artery
- Brachial artery (adult only)
- Axillary artery (adult only)
- Radial* artery (adult only)

*not available in U.S.

¹ GEF, PVPI and dPmax not available in the United States

² Measured using synthetic and/or database waveforms (laboratory testing)

³ Requires VF8 software.

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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).