

Infinity[®] etCO₂+ Respiratory Mechanics Pod

Now you can view respiratory parameters, waveforms and flow loops together with hemodynamic data on the same display – both on bedside monitors and also at remote locations across the Infinity[®] Network. The Infinity etCO₂+ Respiratory Mechanics Pod provides an extensive overview of the patient's pulmonary status. The pod can also serve as a trend indicator of blood-gas changes, reducing the need for costly blood-gas measurements.

Features

- Lets you view respiratory and hemodynamic data on same display
- Provides broad view of patient's pulmonary status, including parameters, waveforms and flow loops
- Indicates blood-gas trend changes

Measuring Capabilities

Capnography parameters

	Definition
CO ₂	Carbon dioxide
i CO ₂	Inspired CO ₂ (also CO ₂ i) (Fi CO ₂)
PaCO ₂	Partial pressure arterial CO ₂
PeCO ₂	Mixed expired CO ₂
etCO ₂	End-tidal CO ₂ , at end-expiration

Advanced CO₂ measurements

TVCO ₂	Portion of CO ₂ in tidal volume ML/breath for a single breath
VCO ₂	Volumetric CO ₂ is volume of CO ₂ eliminated over one minute
TV alv s	Alveolar portion of tidal volume, spontaneous
TV alv m	Alveolar portion of tidal volume, mechanical
MV alv s	Alveolar minute volume, spontaneous
MV alv m	Alveolar minute volume, mechanical
TVd	Dead space portion of tidal volume
TVd _{aw}	Airway portion of TV dead space
TVd _{alv}	Alveolar portion of TV dead space
TVd _{phys}	Total physiological dead space = airway + alveolar dead space
TVd/TV	Dead space to tidal volume ratio
TVd/TV _{phys}	Total physiological dead space to tidal volume ratio
TVd/TV _{aw}	Airway dead space to tidal volume ratio
V _D /V _T	Same as TVd/TV _{phys}



Respiration	
CO ₂ Sensor	0 – 149 bpm ±1 bpm
Flow, Flow/CO₂ sensor	
Neonatal	10 – 150 bpm
Pediatric	5 – 120 bpm
Adult/Pediatric	2 – 120 bpm
Pressure	±120 cmH ₂ O (All sensors)
Warmup	
etCO ₂ Capnostat® III sensor	< 5 min @ 25° C
Flow, Flow/CO ₂ sensor	Instant measuring
Calibration	
etCO ₂ Capnostat III sensor	Verify once a day; calibrate if sensor is moved from one pod to another
Flow, Flow/CO ₂ sensor	Automatic
Calibration time	
etCO ₂ Capnostat III sensor	< 20 sec
Flow, Flow/CO ₂ sensor	Not applicable
Accuracy	
etCO ₂ Capnostat III sensor	0 – 40 mmHg ± 2 mmHg 41 – 70 mmHg ±5% of reading 71 – 99 mmHg ±8% of reading
Flow, Flow/CO₂ sensor	
Neonatal (Flow)	Greater of ±3% reading or 0.125 breaths/min (@ ±40 breaths/min)
Neonatal (Flow/CO ₂)	Greater of ±3% reading or 0.125 breaths/min (@ ±25 breaths/min)
Pediatric (Flow/CO ₂)	Greater of ±3% reading or 0.25 breaths/min (@ ±120 breaths/min)
Adult/Pediatric (Flow)	Greater of ±3% reading or 0.5 breaths/min (@ ±180 breaths/min)
Adult/Pediatric (Flow/CO ₂)	Greater of ±3% reading or 0.5 breaths/min (@ ±180 breaths/min)
Airway Pressure	Greater of ±2% reading or 0.5 cmH ₂ O (@ ±120 cmH ₂ O)
Gas compensation (OR mode only)	Air, N ₂ O/O ₂ , <60% O ₂ , Heliox
Anesthetic agent compensation	1 – 20 % (user-selectable)
Alarm limits (user-selectable)	For respiration rate, peak inspiratory pressure (upper alarm limit only), positive end-expiratory pressure, minute volume (lower alarm limit only), end tidal CO ₂ , inspired CO ₂ (upper alarm only)
Trends	
24 hour trends are available for all parameters (depending on patient category and ventilation mode)	
Minitrend	(TVi, TVe, TVd _{aw} , MVe, RRs, RRv, Cdyn, C20/Cdyn, etCO ₂ , Raw e, PEF, TV _{valv} , MV _{valv} , and VCO ₂)

Split Screen

Off, 60-min. minitrends, 10-min. minitrends or ventilation

Recordings

Analog respiratory waveform can be printed on the R50 series recorder strip chart or laser printer

Product Specification

Flow, Flow/CO₂ sensor dead space

Neonatal (Flow)	< 1 cc
Neonatal (Flow/CO ₂)	< 1 cc
Pediatric (Flow/CO ₂)	< 4 cc
Adult/Pediatric (Flow)	6.5 cc
Adult/Pediatric (Flow/CO ₂)	8 cc
Power source	Power directly from the monitor via Pod Comm connection
Connectors	Flow sensor, combined CO ₂ /flow sensor (encoded for automatic patient category identification); CO ₂ sensor connector (20-pin); monitor connector (7-pin)

Standards

Free Fall: IEC68-2-32, Operational after 20 drops from 1 meter
Operational Shock: IEC68-2-27, 50G Peak, half-sine, 11 msec
Sinusoidal Vibration IEC68-2-6, 2G Peak

Physical Specifications

Size (H x W x D)

Pod	140 x 140 x 51 mm (5.5 x 5.5 x 2 in.)
etCO ₂ sensor	33 x 42 x 22 mm (1.3 x 1.7 x 0.9 in.)

Weight

Pod	540 g (1.2 lbs) without cable
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Environmental Requirements

Temperature range	Operating: 10°C to 40°C (50°F to 104°F) Storage: -20°C to 50°C (-4°F to 122°F)
Relative humidity	Operating: 20% to 90%, non-condensing Storage: 10% to 95% (with packaging)
Atmospheric pressure	Operating: 525 to 795 mmHg Storage: 375 to 795 mmHg

Ordering Information

Infinity etCO₂+ Respiratory Mechanics Pod 5740704

Includes: pod, 3 meter intermediate cable and IV pole mount

For a complete list of Dräger Medical approved accessories, contact your local Dräger Medical representative.

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