

TO: Newport Customers

SUBJECT: Newport HT50 is Compatible with the IKARIA INOmax[®] DS

In March of 2010, IKARIA released a technical bulletin which lists the ventilators that are compatible with the INOmax[®] DS nitric oxide delivery system. Both the Newport HT50 Ventilator and the Newport E200 Ventilator have been validated for use with and are listed as compatible ventilators with the INOmax[®] DS nitric oxide delivery system.

Inhaled nitric oxide/oxygen blends are used in conjunction with ventilatory support and other appropriate agents to promote capillary and pulmonary dilation in the treatment of primary pulmonary hypertension in term and near-term (>34 weeks gestation) neonates^(1,2). This type of therapy has the potential for improving oxygenation, reducing the need for extracorporeal membrane oxygenation and saving lives in infants at risk for pulmonary vascular disease.³

IKARIA's INOmax[®] DS Nitric Oxide delivery system:



- Meets all of the FDA-required specifications
- Allows for operator-determined concentrations of nitric oxide in the breathing gas
- Provides for a concentration that is constant throughout the respiratory cycle
- Monitors for nitric oxide (NO), oxygen (O₂), and nitrogen dioxide (NO₂)
- Prevents generation of excessive inhaled NO₂
- Developed for bedside or transport situations.

If you have any questions about use of the INOmax[®] DS, please visit IKARIA on the web at <http://inomax.com/inomax-delivery-systems/> or contact IKARIA technical support at 1-877-566-9466.

¹ Finer NN, Barrington KJ (2006). "Nitric oxide for respiratory failure in infants born at or near term". *Cochrane Database Syst Rev* (4): CD000399.

² Chotigeat U, Khorana M, Kanjanapattanakul W (2007). "Inhaled nitric oxide in newborns with severe hypoxic respiratory failure". *J Med Assoc Thai* 90 (2): 266–71.

³ Hayward, CS; Kelly, RP; MacDonald, PS (1999). "Inhaled nitric oxide in cardiology practice.". *Cardiovascular research* 43 (3): 628–38.



Technical Bulletin

Ref: **TB- 08007**

Issue date: **March 2010**

Product: INOmax[®] DS

Priority: Low

Affected parts: Ventilator Compatibility

Classification: Information

Subject: **Ventilator Compatibility List**

WARNING: The approved patient population for the INOmax DS, as specified in the drug labeling for INOmax[®] (nitric oxide) for inhalation, is limited to neonates. The INOmax DS is not intended to be used in other patient populations.

WARNING: Patient disconnect and high pressure alarms are required for the ventilator.

The INOmax DS is compatible with most types of ventilators by connecting into the inspired limb of a patient's breathing circuit. The system measures the gas flow in the breathing circuit and then injects NO/N₂ gas to produce the set NO concentration in ppm.

	Measure	Specification
Inspiratory Flow Rate:	L/min	2 - 120
Respiratory Rate:	bpm	6 - 60
Airway Peak Pressure:	cmH ₂ O	0 - 70
PEEP:	cmH ₂ O	0 - 20

The INOmax DS has been validated against the following ventilators.

Ventilators Transport

Airon Corporation	pNeuton
Bio-Med Devices	Crossvent 2
Bio-Med Devices	Crossvent 4
Bio-Med Devices	MVP-10
Impact Instrumentation	Uni-Vent
Infrasonics	Infant Star 100
Smiths Medical	babyPAC 100
Smiths Medical	ventiPAC 200D
Smiths Medical	paraPAC Medic 200D

Neonatal

Bear	750ps (Cub)
Bird	VIP
Drager	Babylog 8000
Drager	Evita
eVent Medical	Inspiration LS
GE Healthcare	Engstrom Carestation
Hamilton	Galileo
Infrasonics	Infant Star 500
Infrasonics	Infant Star 950 (not HFV mode)
Newport	Wave
Puritan Bennett	840

	Respironics Sechrist Maquet (formerly Siemens) Viasys Viasys	Esprit IV-100B Servo i Avea Vela
Adult/Pediatric	Bird Drager eVent Medical GE Healthcare GE Healthcare Hamilton Newport Newport Pulmonetic Systems Pulmonetic Systems Puritan Bennett Puritan Bennett Respironics Maquet (formerly Siemens) Maquet (formerly Siemens) Viasys Viasys	VIP Evita Inspiration LS Centiva/5 Engstrom Carestation Galileo HT50 Wave LTV 1000 LTV 1200 7200 840 Esprit Servo 300 Servo i Avea Vela
High Frequency	Bunnell Sensormedics Sensormedics	Life Pulse 3100A (standard and filtered circuits) 3100B (standard and filtered circuits)
Anesthesia	Drager GE Healthcare GE Healthcare GE Healthcare GE Healthcare GE Healthcare GE Healthcare GE Healthcare	Narkomed 2B Aespire 7100 Aespire 7900 Aestiva Aisys Avance Excel SE 7800 Mod SE 7900
Nasal Cannula Positive Airway Pressure (CPAP)	Cardinal Healthcare Hamilton Viasys Viasys	Airlife nCPAP System Arabella Infant Flow CPAP System Infant Flow SiPAP
High Flow Nasal Cannula	Vapotherm	2000i

If you have further questions, please contact technical support at 1-877-566-9466.