INOvent®
delivery system
FOR NITRIC OXIDE THERAPY

INOvent application update #14 (Revised August 2005)

Please place with INOvent Operation and Maintenance Manual.

Mechanical ventilators validated for use with Datex-Ohmeda INOvent delivery system

This Application Update is written to advise clinicians of the full list of anesthesia and critical care mechanical ventilators in *conventional* ventilation modes that have been tested for use with the INOvent delivery system.

Ventilator compatibility

The INOvent delivery system is compatible with most types of ventilators by connecting into the inspired limb of the patient's breathing circuit. The system measures the gas flow in the breathing circuit and then injects NO/NO_2 gas to produce the selected NO concentration in ppm.

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

⚠ **WARNING** **Before using the INOvent delivery system on a patient with a ventilator that has not been validated, confirm compatibility in accordance with internal protocols or risk management guidelines.**

⚠ **CAUTION** **Note the airflow direction arrow on the injector module; the flow out of the ventilator must be through the injector module in the direction of the arrow on the module.**

The injector module should only be used in the dry part of the breathing circuit to make sure flow measurement is correct.

To avoid medication interfering with the gas monitoring system, administer surfactants or other medications on the on the patient side of the sample tee.

- **When connecting breathing tubing, make sure it is long enough for any required equipment movement.**
- **Make sure that the system is not wheeled over tubing connected to a patient or to the equipment.**

Important

Before using the INOvent delivery system, read and understand the Operation and Maintenance manual. Additionally, read and understand the manuals for the ventilator, humidifier and any other accessory items used. Follow the manual instructions and obey Warnings and Cautions.

The INOvent delivery system has been validated against the following ranges:

	Measure	Neonatal	Adult
Inspiratory flow rate:	L/min	4-55	4-120
Max. oxygen dilution:	%v/v	10	5
Respiratory rate:	bpm	6-60	6-60
Airway Peak Pressure:	cmH_2O	0-70	0-70
PEEP:	cmH_2O	0-20	0-20

The INOvent delivery system has been validated against the following ventilators in *conventional* ventilation modes:

Adult ventilators

Bear	1000
GE Healthcare	Centiva/5
Dräger	Evita 2
Dräger	Evita 4
Hamilton	Raphael
Hamilton	Galileo
Puritan Bennett	840 Ventilator System
Puritan Bennett	7200
Pulmonetics Systems	LTV series
Siemens	Servo 300
Siemens	Servo 900C
Siemens	Servo i
GE Healthcare	Engström Carestation

Transport ventilators

BIO-MED	Crossvent series
BIO-MED	MVP-10
Dräger	Babylog 2000 (available outside the U.S.A.)
Infrasonics	Infant Star 100

Neonatal/Pediatric ventilators

Bear	750vs (Cub)
Bear	BP20001 (Cub)
Bird	VIP
Dräger	Babylog 8000
Dräger	Evita 2 with Neoflow
Dräger	Evita 4 with Neoflow
F. Stephan GmbH	Stephanie
Hamilton	Galileo
Infrasonics	Infant Star (not HFV mode)
Infrasonics	Infant Star 500
Newport	Wave
Sechrist	IV-100B
SLE Life Support	SLE 2000

Anesthesia ventilators

Note: GE Healthcare ADU has been removed from the validation list of anesthesia ventilators.

GE Healthcare	7800
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GE Healthcare	Aestiva
North American Dräger	Narcomed A-VE
GE Healthcare	Avance
GE Healthcare	Aespire

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