

INOvent[®] delivery system

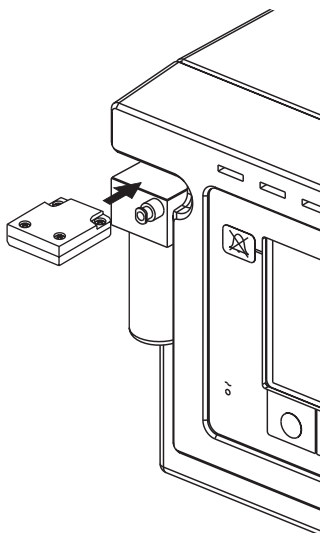
FOR NITRIC OXIDE THERAPY

INOvent application update #3

Inspired gas sample system management during aerosol delivery

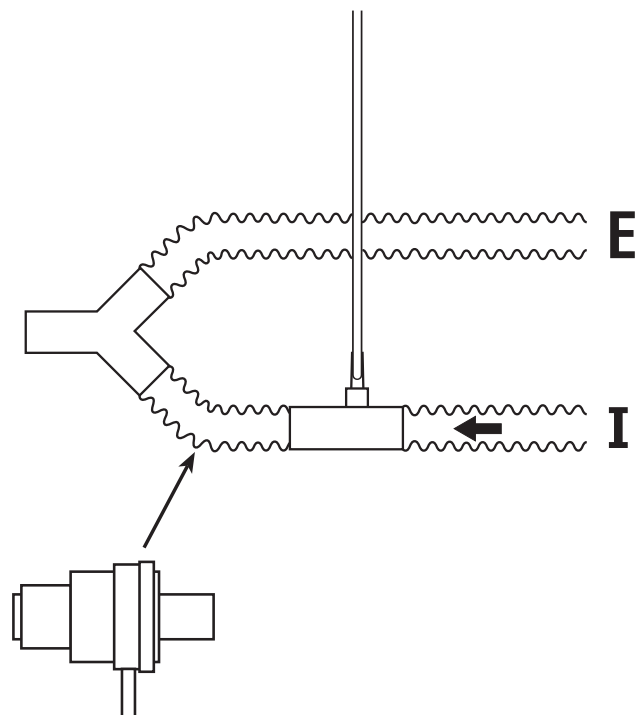
Delivery of medicated aerosols via a nebulizer during mechanical ventilation is a common practice in the Intensive Care environment. Aerosols may be delivered on an intermittent or continuous basis.

When the INOvent delivery system is used, this practice may produce a gas sampling alarm condition due to excessive moisture/medication in the water separator cartridge. The INOvent delivery system will display the message “sample line/filter blocked”. To resolve the alarm condition, the water separator cartridge must be replaced.



Replacement of water separator cartridge

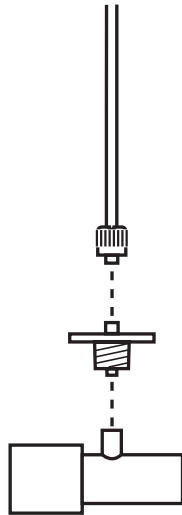
To avoid a “sample line/filter blocked” alarm condition, it is recommended that the medication nebulizer be placed distal to the sample tee on the inspiratory limb to avoid over saturation of the filter cartridge.



Location of nebulizer distal from the inspiratory gas sample tee

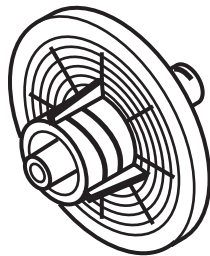
However, there may be circuit or heater wire configurations that necessitate placement of the medication nebulizer proximal to the sample tee, thus creating the potential for “sample line/filter blocked” alarm condition due to exposure to excessive moisture/medication.

To minimize replacement of water separator cartridges during aerosol delivery, a small 0.5 micron hydrophobic disc filter with luer connections may be placed between the sample line and the sample tee.



Disc filter / gas sample tee connection

The filter that has been validated by Datex-Ohmeda for this purpose is manufactured by *Intertech* (p/n 002291) and may be purchased directly from *Smith Industries*—1-800-258-5361.



Intertech p/n 002291

It is important to note that this disc filter is to be used in conjunction with the INOvent delivery system water separator cartridge. The INOvent delivery system must never be operated without the water separator cartridge installed as detailed in the *INOvent delivery system Operation and Maintenance Manual*.

It is suggested that this disc filter be replaced at each treatment period. In the case of continuous medication delivery, frequent disc filter replacement may be necessary over the course of treatment.

The utilization of the disc filter will not prevent a “sample line/filter blocked” alarm condition from occurring as this disc filter, over time, will become saturated with moisture/medication thus requiring replacement. However, it will reduce the frequency of water separator cartridge replacement during medicated aerosol delivery.

**If you have any questions, please contact
Datex-Ohmeda Technical Support at
1-800-345-2700.**



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