

Technical Bulletin

Ref: TB-12012 Issue date: February 2022

Product: INOmax® DS / INOmax DS_{IR}® / INOblender® Priority: Low

Affected parts: Breathing Device Testing Classification: Information for Distribution

Subject: **Breathing Device Applications**

This technical bulletin is written to advise clinicians that the following breathing devices have been validated for use with the INOmax DS/INOmax DS_{IR} and INOblender using the configurations shown below:

INOmax DS/ INOmax DSIR

- A-Plus Medical Babi-Plus Bubble CPAP
- Fisher&Paykel Infant Nasal Cannula Circuit
- Fisher&Paykel Optiflow

INOblender

Fisher&Paykel Neopuff

Proper use of these products depends on careful reading and understanding of labeling and instructions. Please refer to the INOmax DS, INOmax DS_{IR} and INOblender operation manuals for guidance. Also refer to the specific breathing device operation manual or instructions for use.

INOmax DS/INOmax DS_{IR} Warnings:

- The INOmax DS / INOmax DS $_{\rm IR}$ subtracts gas from the breathing circuit via the gas sampling system at 230 mL per minute; this can affect the sensitivity of a flow triggered synchronized breath mode of some ventilators. The trigger sensitivity of the ventilator should be checked after connecting the INOmax DS / INOmax DS $_{\rm IR}$ to the breathing circuit.
- Patient disconnect and high-pressure alarms are required for the ventilator.

INOblender Warnings:

- The purge procedure must be followed to help ensure NO₂ is purged from the pressure regulator, INOblender and hoses before the manual resuscitator bag or nasal cannula is connected to the patient. The manual bag should be squeezed continuously during use to avoid NO₂ building up in the bag. If the bag is not squeezed continuously while delivering INOMAX®, the bag should be removed from the patient and the purge procedure performed before continuing.
- Persons using this device should be trained on and experienced in the use of this
 device to assure effective administration of INOMAX and to avoid injury to the
 patient or others resulting from inhalation of excess INOMAX, nitrogen dioxide or
 other reaction products.

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PN: 20748, Rev. 02

MALLINCKRODT Doc Title: TB-12012-ENG INOmax DSIR/INOblender Breathing Device Applications

INOmax DS/INOmax DS_{IR} Cautions:

- Insert the Injector Module on the dry side of the breathing circuit prior to the humidifier (this will ensure correct flow measurement).
- Avoid medications interfering with the gas monitoring system; administer any aerosolized medications distal to the sampling tee.

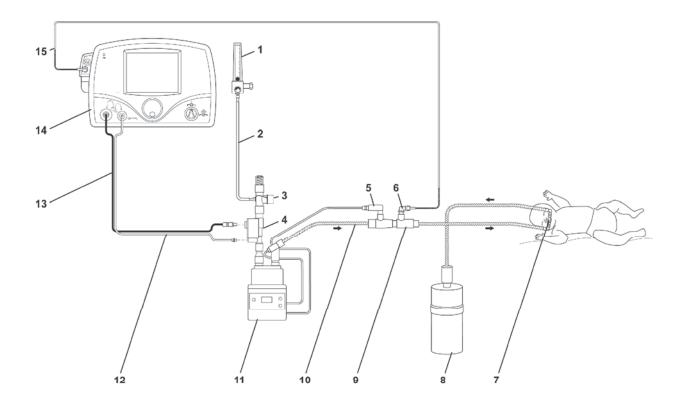
INOblender Cautions:

 Refer to the manufacturer's procedures for using the resuscitation bag. When finished, turn the INOMAX cylinder off and continue to flow O2 until the NO pressure gauge reads zero, then turn the O2 flow off and the NO dial to zero ppm.

Note: Connections to various ventilators as well as their corresponding disposable circuits, are unique to each manufacturer. Please refer to the specific breathing device operation manual or instructions for use for guidance.

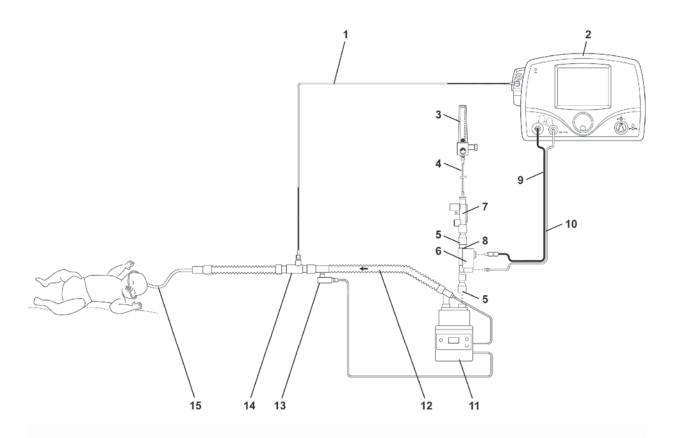
Following are diagrams for connecting the INOmax DS, INOmax DS_{IR} and INOblender into the breathing circuit.

INOmax DS/INOmax DS_{IR} use with the A-Plus Medical Babi-Plus Bubble CPAP



- 1. Oxygen Source
- 2. Oxygen Tubing
- 3. Pressure Relief Manifold
- 4. Injector Module
- 5. Temperature Probe
- 6. 90 Degree Sample Port Adapter
- 7. Nasal Prongs
- 8. Babi Plus Bubble PAP Valve
- 9. Tee Adapter
- 10. Breathing Circuit
- 11. Humidifier
- 12. NO/N₂ Injector Tube
- 13. Injector Module Electrical Cable
- 14. INOmax DS_{IR®}
- 15. Patient Gas Sample Line with Nafion

INOmax DS/INOmax DS_{IR} use with the Fisher&Paykel Infant Circuit Nasal Cannula



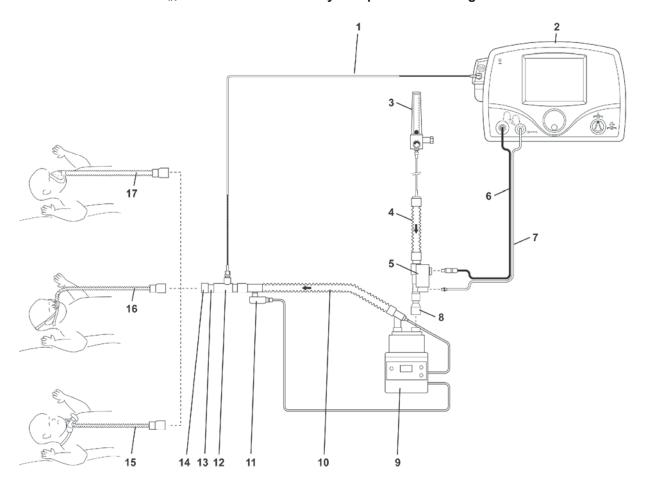
- 1. Patient Gas Sample Line with Nafion
- 2. INOmax DS_{IR}®
- 3. Oxygen Source
- Oxygen Tubing
- 5. 22F X 15M Adapter
- 6. Injector Module
- 7. Pressure Relief Manifold
- 8. 22M/15F X 22M/15F Adapter

- 9. Injector Module Electrical Cable
- 10. NO/N₂ Injector Tube
- 11. Humidifier
- 12. Breathing Circuit
- 13. Temperature Probe
- 14. Gas Sample Tee
- 15. Nasal Cannula

Ref. TB-12012; Created 02-2022

PN: 20748, Rev. 02 Page 4 of 7

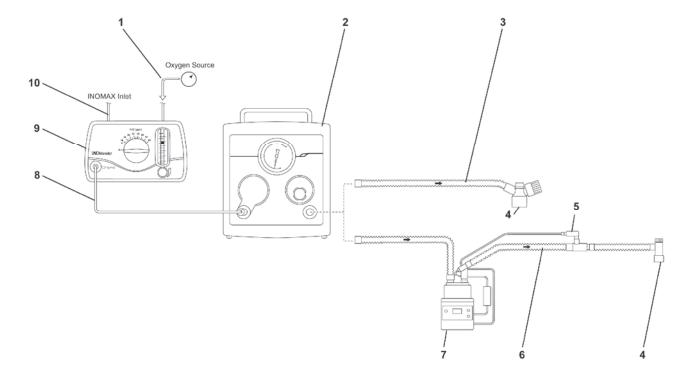
INOmax DS/INOmax DS_{IR} use with the Fisher&Paykel Optiflow Breathing Circuit



- 1. Patient Gas Sample Line with Nafion
- 2. INOmax DS_{IR®}
- 3. Oxygen Source
- 4. Breathing Circuit Hose
- 5. Injector Module
- 6. Injector Module Electrical Cable
- 7. NO/N₂ Injector Tube
- 8. 22F X 15M Adapter
- 9. Humidifier

- 10. Breathing Circuit
- 11. Temperature Probe
- 12. Gas Sample Tee
- 13. 22M/15F X 22M/15F Adapter
- 14. 22 mm ID X 22 mm ID Cuff Adapter
- 15. Optiflow Tracheostomy
- 16. Optiflow Nasal Cannula
- 17. Optiflow Mask

INOblender use with the Fisher&Paykel Neopuff Resuscitator



- 1. Oxygen Source
- 2. Neopuff
- 3. T-Piece Circuit (with Duckbill Port)
- 4. Patient Connection
- 5. Temperature Probe

- 6. Humidified Resuscitation System Circuit
- 7. Humidifier
- 8. Oxygen Tubing
- 9. INOblender
- 10. INOMAX® Inlet

For technical assistance regarding the INOmax DS/INOmax DS_{IR} or INOblender, please contact technical support at 1-877-566-9466 (North America) or your specific country manager.

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