

## Clinical Bulletin

IMPORTANT INFORMATION – PLEASE READ AND KEEP



### MIRUS and NO therapy or active humidification

---

<b>Document:</b>	021_MC_MIRUS and NO therapy or active humidification_CB-03_A-00
<b>Date:</b>	2020-09-03
<b>Author:</b>	Stephan Lang
<b>Related version:</b>	<input checked="" type="checkbox"/> All
<b>Distribute to:</b>	<input type="checkbox"/> Internal Use Only <input checked="" type="checkbox"/> Medcaptain <input checked="" type="checkbox"/> Dealer <input checked="" type="checkbox"/> End-user

### MIRUS and active humidification

Active humidification is one of the contraindications for using the MIRUS™. A **combination of MIRUS and active humidification is therefore impossible.**

#### *Background*

The MIRUS Exchanger contains a HMEF (MIRUS Filter). HME's and active humidification cannot be combined with each other, because the HME soaks up water through the active humidification. As a consequence, the resistance of the HME increases and there is a patient risk. In addition, the MIRUS system is not designed for the increased amount of moisture, which significantly reduces the carbon reflection and can lead to miscalculations due to water penetration into the system. This is particularly critical for the calculation of the tidal volume (VT) and can lead to incorrect dosing.

## **MIRUS and NO therapy**

There is no precise data available to date on a combination of MIRUS with a simultaneous NO therapy. There are no validation papers, no proven release, and consequently no final negation. There are no known medical indications of NO in combination with VA and thus no knowledge of a critical medical impact for the patient. From a technical point of view, it should also be mentioned that the MIRUS is not designed for sampling NO, which means that a joint application is only possible in combination with an NO monitor. A possible compatibility requires a long and complex process of investigation where the technical feasibility is generally questionable.

### *Manufacturer Statement*

An application of NO therapy in conjunction with MIRUS can only be carried out under your own responsibility. As the manufacturer, we distance ourselves from this combination and do not recommend using this combination on patients, but we may not prohibit it.

//:End of the document.