

Fritz Stephan GmbH Medizintechnik

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FSN Reference QM229 Update 07.01.2025

Gackenbach, 07. January 2025

Urgent Field Safety

for the neonatal ventilator family SOPHIE

FSN QM229

Possible mean airway pressure loss within HFO+IMV

RECIPIENTS:

Specialists and care staff as well as service technicians in medical facilities where ventilators of type SOPHIE are used.

AFFECTED PRODUCTS:

Ref.Product1038614xxAll device models of Sophie und Sophie 2020

MANUFACTURER:

Fritz Stephan GmbH Kirchstraße 19 D-56412 Gackenbach

REASON FOR THE SAFETY NOTICE:

Two cases were reported to Fritz Stephan GmbH in which a drop of mean airway pressure occurred under the combined ventilation mode HFO+IMV.

During that very specific mode of ventilation, an excessive loss of ventilation pressure, e.g. due to a disconnection, will lead to the effect that the pressure will not return to the set PEEP level after the remedy of the ventilation pressure loss. This leads to a decrease of the mean airway pressure.

The decreased mean airway pressure can lead to a serious deterioration in the health of the patient in 2 ways:

- 1. Oxygenation deteriorates due to the lower oxygen partial pressure. This can lead within minutes to a drop in the oxygen saturation.
- 2. Development of atelectasis with impact on the lung mechanics and possibly deterioration of the perfusion. This can lead to a delayed reduction in gas exchange, resulting in hypercapnia and hypoxia.

This Field Safety Corrective Action has been reported to the related competent authorities.



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MEASURES BY THE RECIEPIENTS

- Provide this Field Safety Notice to all users and other people in your facility who must be informed.
- Avoid HFO-IMV mode if possible. If, however, the use of HFO-IMV mode is indicated, you the measured value display for PEEP and Mean Airway Pressure must be observed and checked immediately after each technical alarm.
- Avoid VBS disconnection or disconnection of the device from gas supply during active ventilation operation. Switch to "Pause" or "Standby" for intended intermediate disconnections.
- If the PEEP and/or Mean Airway Pressure decreased unintentional, the pressure controller must be reset by temporarily switching from HFO-IMV to HFO-CPAP and back.

MEASURES BY THE MANUFACTURER

- Fritz Stephan GmbH will develop a software solution to prevent a drop in PEEP and MAP under HFO-IMV and introduce additional pressure monitoring.
- The customer service of Fritz Stephan GmbH will contact you as soon as the software solution is available to arrange an appointment.

CONTACT

If you have any questions, please contact your local medical product advisor or us directly.

We will be pleased to answer your questions:

Tel: +49 (0) 64399125-0 Email: info@stephan-gmbh.com

Sincerely,

Fritz Stephan GmbH

Bernd Höhne (CEO)



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RESPONSE TO SAFETY INFORMATION

FSN QM229

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Customer information	
Name of health facility:	
Street, no.:	
Postal code/city:	
Country:	

Please complete this response form using capital letters and return it by fax, email or post to:

Fritz Stephan GmbH Kirchstraße 19 56412 Gackenbach GERMANY

 Fax Image:
 +49 (0) 6439 9125 - 111

 Email Image:
 vigilance@stephan-gmbh.com

I have read and understood the safety information and confirm this with my signature. All users and other people who must be informed in my facility are aware of this letter.

Name (in capital letters):

Job title (in capital letters):

Date:

Signature: