STEPHAN®

SOPHIE

SPO2C inside

THE INNOVATIVE NEONATAL VENTILATION SYSTEM

SO PRECISE. SO PERFECT. SOPHIE.

Sophie was developed to meet the demand of neonatologists for a sensitive ventilator. SOPHIE offers state-of-the-art ventilation technology with the option of using customized ventilation strategies for premature and newborn babies. Its high-tech trigger technology provides you with flexible synchronization for both invasive and non-invasive ventilation.
The major challenge in non-invasive ventilation (NIV) of newborn and premature infants is the adjustment of ventilation and oxygen saturation to the current, frequently changing patient situation.

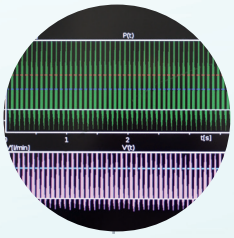
This is one of SOPHIE's strengths; thanks to innovative sensor technology, the device immediately recognizes changes and adjusts therapy parameters accordingly. In addition, you have the option of activating high-frequency oscillation at the touch of a single button if the situation so requires. Plus: SOPHIE allows effective monitoring at every stage during therapy to ensure optimal supervision.

REDUCING THE RISK OF BRAIN DAMAGE AND BLINDNESS.

SOPHIE uses SPO_2C, an integrated oxygen saturation controller, which automatically maintains optimum oxygen saturation. By adjusting saturation in real time, SOPHIE helps reducing the risk of brain damage and blindness.

Monitoring the course of therapy is also simplified considerably, as all relevant parameters are continuously recorded and can be accessed in trend view at any time.

THESE FEATURES MAKE SOPHIE UNIQUE.



Integrated high-frequency oscillation

External respiration sensor for synchronized non-invasive ventilation and apnea detection

Automatic integrated respiratory humidification

Clearly arranged, user friendly touch panel

Heated electronic flow sensor

SpO$_2$ controller SPO$_2$C for optimum oxygen saturation

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SO INNOVATIVE. SO INTELLIGENT. SOPHIE.

SOPHIE not only automatically adapts the therapy to the patient's needs but also documents the entire course of therapy. This relieves the strain from care staff and creates space for the important aspects of care which cannot be automated. The advantages in everyday hospital life are obvious:

- No manual recording of oxygen saturation
- Reduction of manual therapy adjustments
- Optimal ventilation of the little patients at all times

If required, simply activate high-frequency oscillation at the push of a button. Thanks to the integrated solution, there is no need for changing patient tubes.

Because little patients change their breathing pattern with every movement, SOPHIE is particularly flexible. The respiratory sensor converts abdominal movements into a trigger signal and ventilation is adapted automatically. The child's breathing and NIV ventilation are synchronized in real time. As a result, your benefit from significantly reduced re-intubation rates.

Another major advantage of SOPHIE is its electronic flow sensor. It allows accurate measurement of flow rates to record tidal volume (Vt) and flow with minimal dead space. The sensor is heated to prevent condensation. Respiratory gas is optimally humidified thanks to the integrated humidification system, which heats and humidifies respiratory gas for the little patients.

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