

Press Release

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New Babylog VN500 for Neonatal Ventilation

Wide range of therapy options in one device and simplified user interface

Lübeck – Babylog VN500, the new ventilation device for neonates and infants, combines important types of ventilation, such as conventional ventilation, High Frequency Oscillation, nasal CPAP and oxygen therapy in one medical device. The detachable control panel with 17" touch screen and rotary knob offers extended possibilities of device control and lung function monitoring.

Due to the premature lung of neonates, the requirements from ventilation devices are highly specialized. Ventilation often starts from the first minutes of life while the lung is still developing. Therefore, physicians must have the flexibility to continuously monitor and adapt the therapy. For pressure-controlled ventilation with continuous flow, the Babylog VN500 provides ventilation monitoring which includes the measurement of tidal and minute volumes. Via the Volume Guarantee (VG) option and Mandatory Minute Volume (MMV) mode, the device regularly verifies patient activity and maintains the support at a consistent level. If conventional ventilation is not successful, the physician can switch to High Frequency Oscillation (HFO): Delivering low tidal volumes at high frequencies can be more effective for certain patients to protect the premature lung during development. The Volume Guarantee (VG) option used during HFO automatically adapts the inspiratory pressure to the set high-frequency tidal volume.

Invasive and Non-invasive Ventilation

To protect the upper airways of neonates, it is common practice to use uncuffed endotracheal (ET)-tubes. This often results in unpredictable ET-tube leakages which complicate the adaptation of ventilation device to the spontaneous breathing of the small patient. The Babylog VN500 provides automatic leakage compensation (ATC) to continuously adapt the trigger sensitivity to compensate for ET-tube leakages.

Alternatively, non-invasive ventilation can be performed in combination with the Dräger BabyFlow accessories.

Contact

Corporate Communications:
Burkard Dillig
Tel +49 451 882-2185
burkard.dillig@draeger.com

Trade press:
Markus Henkel
Tel. +49 451 882-4598
markus.henkel@draeger.com

Drägerwerk AG & Co. KGaA
Moislinger Allee 53–55
23542 Lübeck, Germany
www.draeger.com

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Simplified Operation and Monitoring via Touch Screen

All important information at a glance and intuitive user interface are the key features of the operating concept of the Babylog VN500. The device is delivered with a default configuration for the touch screen. If desired, the user interface can also be customized. It is possible to show explanatory help text for the different ventilation settings. Hyperlinks in the help text simplify the access to further information. In addition, graphic applications such as the new Smart Pulmonary View can support therapy decisions: This application allows the clear representation of ventilation parameters, such as lung compliance and resistance of the airways, in the form of a lung graphic.

Extended Mobility and Transportability

The internal batteries of the Babylog VN500 allow for 30 minutes operation independent from central power supply. The PS500 power supply extends this operation time up to 100 minutes. Combined with various solutions for central gas or independent operation, the Babylog VN500 is ready for intra-hospital transports.

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Dräger Medical AG & Co. KG is the manufacturer of the Babylog VN500. Babylog® is a brand name of Dräger.

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Investor Relations, Vanina Herbst, Tel: +49 451 882 2685. E-Mail: vanina.herbst@draeger.com

Contact

Corporate Communications:
Burkard Dillig
Tel +49 451 882-2185
burkard.dillig@draeger.com

Trade press:
Markus Henkel
Tel. +49 451 882-4598
markus.henkel@draeger.com

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