NeoMode

Rely on the 840™ NeoMode™ option to deliver sensitive, ventilation tailored to your critically ill neonatal patients. The NeoMode option accommodates the high respiratory rates, large leaks, and high ET tube resistances that are unique to ventilating neonates.

Flow sensitivity from 0.1 L/min to 10 L/min allows responsive breath triggering and the ability to compensate for large leaks in neonatal circuits. Rise to pressure is adjustable from least to most aggressive, and peak flow as low as 1 L/min is available in volume ventilation. Selectable expiratory sensitivity offers excellent synchrony at high respiratory rates.

The 840 Ventilator’s sophisticated design allows compensated tidal volume (as low as 5 mL) delivery and measurement without the maintenance and expense of a proximal flow sensor, even as the patient’s compliance and resistance changes.
SPECIFICATIONS

NeoMode

NeoMode ventilator settings (neonatal patient circuit type)

Expiratory sensitivity ($E_{\text{SENS}}$)
- **Range**: 1 to 80%.
- **New patient value**: 25%.

Flow pattern
- **Range**: square or descending ramp.
- **New patient value**: descending ramp.

Flow sensitivity ($V_{\text{SENS}}$)
- **Range**: 0.1 to 10 L/min for neonatal patient circuit type.
- **New patient value**: 1.0 L/min.
- **Resolution**: 0.1 L/min.

Ideal body weight (IBW)
- **Range**: 0.5 to 7.0 kg (1.1 to 15.4 lb).
- **New patient value**: 3.0 kg (6.6 lb).
- **Resolution**: 0.1 kg (0.2 lb) for 0.5 to 3.5 kg (1.1 to 7.7 lb), 0.5 kg (1.1 lb) for 3.5 to 7 kg (7.7 to 15.4 lb).

Inspiratory time (TI)
- **Range**: 0.20 to 8.00 s.
- **New patient value**: based on $V_T$ and $V_{\text{MAX}}$.
- **Resolution**: 0.01 s.

Mandatory breath type
- **Range**: volume control (VC) or pressure control (PC).
- **New patient value**: PC.

Breath Mode
- **Range**: assisted/controlled (A/C)
- **SIM V** (VC or PC) with or without pressure support (PS)
- **BLevel** (optional)
- **SPONT** with or without pressure support (PS)
- **New patient value**: SIM V

Peak flow ($V_{\text{MAX}}$)
- **Range**: 1.0 to 30 L/min.
- **New patient value**: based on IBW.
- **Resolution**: 0.1 L/min for 1 to 20 L/min, 1 L/min for 20 L/min and above.

Respiratory rate ($f$)
- **Range**: 1.0 to 150 L/min.
- **New patient value**: 20 L/min.
- **Resolution**: 0.1 L/min for 1.0 to 10 L/min, 1 L/min for 10 to 150 L/min.

Spontaneous breath type
- **Range**: pressure supported (PS) or not pressure supported (NONE).
- **New patient value**: PS.

Tidal volume ($V_T$)
- **Range**: 5 mL to 315 mL.
- **New patient value**: the greater of 5 mL or (7.25 x IBW).
- **Resolution**: 1 mL for 5 to 100 mL, 5 mL for 100 mL and above.

Trigger type
- **Range**: Flow ($V_{\text{TRIG}}$) only.
- **New patient value**: $V_{\text{TRIG}}$.

Compliance and Approvals
The NeoMode option complies with the requirements of these standards:
- IEC 60601-1 (EN 60601-1), IEC 60601-2-12, EN 794-1, UL 2601-1,
- CSA C22.2 M 601.1, EN 1441.

Ordering Information
840 NeoMode option
- (includes software upgrade kit, disposable neonatal filter/water trap, and mounting plate)
- **English, non-U.S.A.**: 4-076440-00
- **English, U.S.A. only**: 4-076441-00
- **German**: 4-076442-00
- **French**: 4-076443-00
- **Italian**: 4-076444-00
- **Spanish**: 4-076446-00
- **Portuguese**: 4-076447-00

- **Expiratory bacteria filter, neonatal, disposable, (DAR, case of 12)**: 4-076408-00
- **Inspiratory bacteria filter, 22-mm ISO connectors, disposable (D/Flex,™ case of 12)**: 4-074601-00
- **Mounting plate**: 4-076405-00

Specifications are subject to change without notice.
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