

## Evita 4 / Evita 2 dura Software 4.0

The **UPDATE** contains the standard Software 4.0 with improvement in configurability, performance and in the alarm concept.

**UPGRADE** Software 4.0 *plus* is an option that delivers further functions for use under special conditions, it also provides improved measured values and monitoring displays.

### Update

- Previous patient setting
- Leakage compensation can be switched off
- Selection of used humidifier
- New mode PCV+assist

### Improved configurability and operation

The previous patient selection restores the settings and alarms that were last set on the ventilator before the power was switched off. Leakage compensation can be switched off. When leakage compensation is OFF, only the set parameter,  $V_T$ , regulates the delivered tidal volume. If leaks exist, then the patient receives less than the set  $V_T$ . When leak compensation is ON, the patient will receive the set  $V_T$  (to the maximum capability of the device), i.e. leakage is compensated during the dosing of ventilator volume.

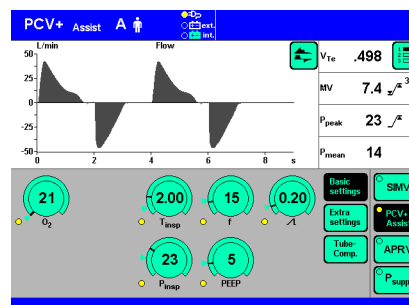


The user can choose between active humidification or an artificial nose (HME). Selecting the type of humidification allows for more exact volume measurement, as flow measurement depends on the humidity of the expired air.

A seamless approach to weaning is now achieved with the Evita 4 in its ability to turn the frequency to 0 in SIMV and PCV+ (SIMV or PCV+ frequency of 0 = CPAP/P.supp.).

### New mode

**PCV+assist** provides assist control modality with pressure controlled breaths. Every patient effort in the expiratory phase is followed by a pressure limited, time cycled breath.



### More new features:

Apnea ventilation can be preconfigured on or off. On the Evita 2 dura, the setting <<Other Modes>> has been simplified. **MV spont.** and **f spont.** are available as trends in the Evita 2 dura.

### Upgrade

- New weaning parameters: RSB / NIF / VT PSV
- Use of external flow source
- Evita 4: Improved Loop display

### Weaning

The software UPGRADE provides new weaning parameters. The Rapid Shallow Breathing Index RSB (also known as RSBI) is calculated as the quotient of frequency and Tidal volume. The lower the RSB Index of a spontaneously breathing patient, the higher the probability of a successful weaning.<sup>1)</sup>

The Negative Inspiratory Force Index NIF (also known as Maximum Inspiratory Pressure MIP) measures the maximum inspiratory force of a patient after previous exhalation. The patient creates this number through their inspiratory effort while the Expiratory hold key is held in place. This creates a low pressure relative to PEEP. The higher this low pressure, the more likely a successful extubation.<sup>2)3)</sup> The parameter  $V_{T,p.supp.}$  (in all modes with pressure support) displays the volume of the last pressure supported breath.

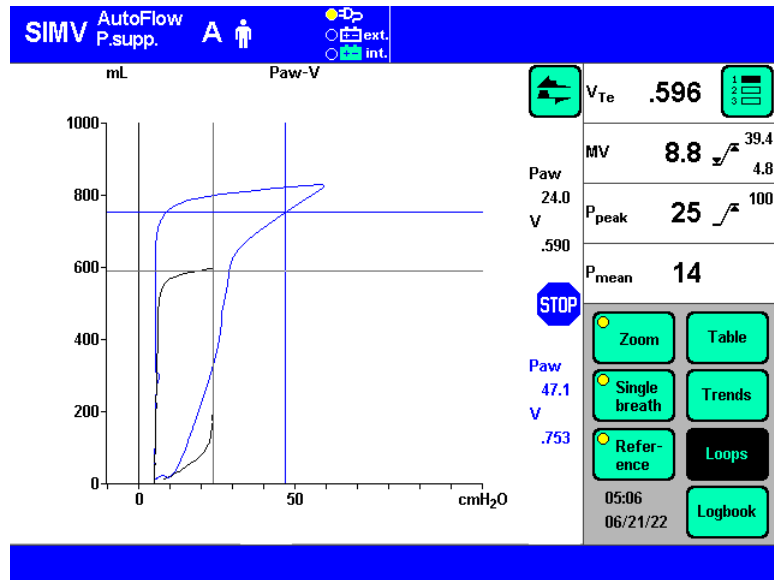


### Loops (only on Evita 4)

On the Evita 4, one loop can be displayed on the entire screen. Loops can be shown instead of the curves in the top part of the screen, so that settings can be done while viewing loops. They can be frozen and scrolled through with a cursor showing the exact values.

### Use of external flow source

In the case of an external flow source, i.e. a nebulizer from an external flow source, the Evita 4/Evita 2 dura determines the flow and automatically adjusts the exhaled alarm parameters of the expiratory flow sensor preventing annoying alarms.



### Literature to RSB/NIF:

- 1). Yang, K.L; Tobin, M.J.: A Prospective Study of Indexes Prediction the Outcome of Trials of Weaning from Medical Ventilation, The New England Journal of Medicine, 1991, 324, S. 1445-1450
- 2). Tobin, M.J.; Charles, G. A.: Discontinuation of mechanical ventilation in:  
Tobin, M.J. Principles and Practice of Mechanical Ventilation, 1994, S. 1177-1206
- 3). Jubran, A: Advances in Respiratory Monitoring During Mechanical Ventilation, CHEST 1999, 116, S. 1416-1425

**Software 4.0 supports the options mask ventilation/NIV, nurse call, Evita Remote Pad and 2nd pressure sensor.**

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## Order List

Name and Description	Order no.
<b>Update</b>	
Kit <sup>4)</sup> SW 4.0 Evita 4	84 14 467
Kit <sup>4)</sup> SW 4.0 Evita 2 dura	84 14 468
<b>Upgrade</b>	
Option <sup>5)</sup> SW 4.0 plus Evita 4	84 14 705
Option <sup>5)</sup> SW 4.0 plus Evita 2 dura	84 14 710
<b>Options</b>	
Option <sup>5)</sup> mask ventilation NIV	84 14 473
Kit <sup>4)</sup> mask ventilation NIV	84 14 474
Option <sup>5)</sup> Multi-Function (MF) board / nurse call	84 14 475
Kit <sup>4)</sup> Multi-Function (MF) board / nurse call	84 14 476
Option <sup>5)</sup> Evita Remote	84 14 477
Kit <sup>4)</sup> Evita Remote	84 14 472
Kit 2nd Pressure sensor	84 14 479

<sup>4)</sup> for retrofitting on site  
<sup>5)</sup> factory installed option