

Evita series Option ATC®

ATC® Automatic Tube Compensation* –
comfort in ventilation and weaning.



- Compensation for tube caused airway resistance throughout the respiratory cycle
- Increased patient comfort with improved patient-ventilator synchrony
- Continuous display of calculated tracheal pressure

COMPENSATION TUBE CAUSED AIRWAY RESISTANCE

During mechanical ventilation, the resistance imposed by the artificial airway makes breath delivery and spontaneous breathing more difficult ¹⁾. ATC® Automatic Tube Compensation adds support to eliminate the effects of the airway resistance and continuously adapts this level of support throughout the respiratory cycle. This results in decreased work of breathing (WOB) and restoration of a more natural breathing cycle.

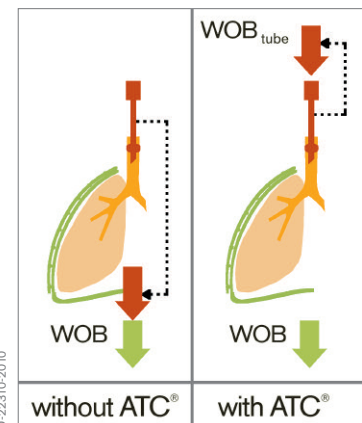
The use of pressure support as a simple method of helping the patient overcome this artificial airway resistance is fraught with fundamental disadvantages ²⁾ due to the fact that airway resistance depends on the current gas flow. Conventional pressure support therefore often leads to undercompensation of the tube resistance

at the start of an inspiration (high gas flow), and to over-compensation at the end of an inspiration (low gas flow). ATC, on the other hand, continuously adapts the degree of compensation to the current gas flow and throughout the entire respiratory cycle takes over precisely the additional work of breathing generated by the tube (WOB_{tube}).

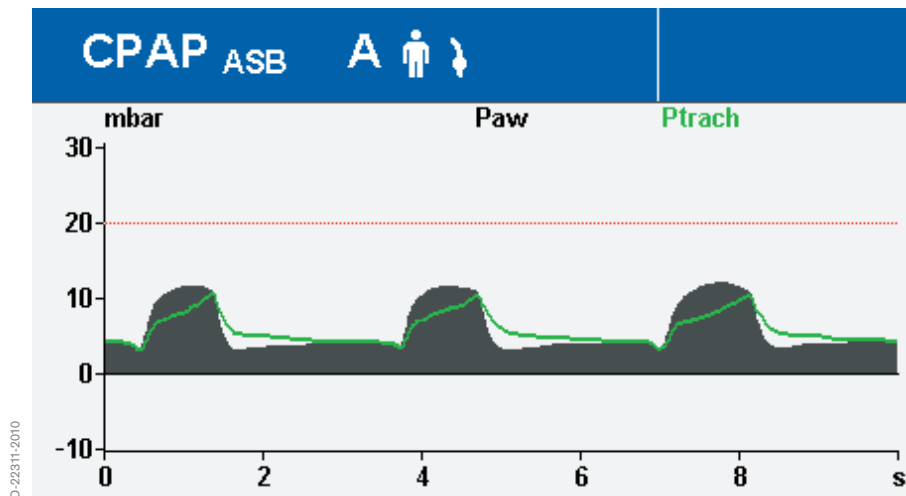
PATIENT COMFORT AND SYNCHRONIZATION

Reduction of WOB leads to improved spontaneous breathing efforts. ATC regulates the pressure in the patient circuit to effectively eliminate added resistance during both the inspiratory and expiratory phases ¹⁾. ATC gives the clinician a “virtual” or an “electronic extubation” to use as a predictor of the breathing pattern after extubation ^{2),3),4)}. In certain disease states such as Chronic Obstructive Pulmonary Disease (COPD), ATC can be modified to work during the inspiratory phase only. Patient-ventilator synchrony is further enhanced by improving breath triggering sensitivity ²⁾.

* Standard for Evita XL, optional for Evita 4 edition and Evita 2 dura



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References

1. Guttman, J. et al 1997: Respiratory comfort of automatic tube compensation and inspiratory pressure support in conscious humans, *Intensive Care Medicine*, Vol. 23, Nr. 11, S. 1119-1124
2. Stocker, R. et al 1997: New Modes of Ventilatory Support in Spontaneously Breathing Intubated Patients in: *Yearbook of Intensive Care and Emergency Medicine 1997*, S. 514-533
3. Fabry, B. et al 1997: Breathing pattern and additional work of breathing in spontaneously breathing patients with different ventilatory demands during inspiratory pressure support and automatic tube compensation, *Intensive Care Medicine*, Vol. 23, Nr. 5, S. 545-552
4. Kuhlen, R.; Rossaint, R. 1997: Electronic extubation – is it worth trying? *Intensive Care Medicine*, Vol. 23, Nr. 11, S. 1105-1107

FACILITATED WEANING

The decreased WOB and an improved patient-ventilator synchrony offered by ATC are key components in enhancing the weaning process. The flexibility of ATC allows the clinician to tailor ATC for more disease-specific applications. These features enhance the potential successful weaning outcomes.

EXTENDED MONITORING

Continuous display of the tracheal pressure curve and the Ptrach-V loop (with the MonitoringPlus option in Evita 2 dura) allows the clinician to assess tracheal pressure without the use of a esophageal catheter.

UNIVERSALLY APPLICABLE

ATC is an additional function which can be applied in all ventilation modes. The only variable which needs to be preset is the tube size and compensation rate. ATC enhances the spontaneous breathing efforts of the patient regardless of the level of support required. ATC provides reliable and comfortable weaning, as well as enhancement of ventilation modes such as BIPAP* and APRV.

ORDER LIST

ATC option for Evita 4 edition and Evita 2 dura (factory installed option)	8414240
ATC conversion kit for Evita 4 edition and Evita 2 dura (for retrofitting on site)	8414240

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*BIPAP used under licence

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