

## SmartCare®/PS

SmartCare®/PS is an option for the Evita XL intensive care ventilator. The SmartCare®/PS system is an automated clinical protocol, designed to stabilize the patient's spontaneous breathing in a comfortable zone of normal ventilation and to automatically reduce the ventilatory support.



### TECHNICAL DATA

SmartCare®/PS can be used for weaning intubated or tracheotomized patients with a body weight above 15 kg (33 lbs).

The weaning protocol is designed for long-term ventilated patients.

As with every weaning protocol, the patients should be ready for weaning, i.e., haemodynamically stable with adequate oxygenation and spontaneous breathing.

Patients should not have a significant V/Q mismatch e.g. pulmonary embolism. The acid-basis status should be balanced, and the patient should not have fever [1].

#### Protocol

Weaning strategy reduction	Automatic adjusted Pressure Support
Protocol implementation	Knowledge base
Metabolic parameter for classification	etCO <sub>2</sub>
Respiratory parameter for classification	f <sub>spont</sub> , VT
Data acquisition intervall	10 sec
Classification of ventilatory situation	Every 2 min/5 min
Classification limits for body weight ranges	15 kg to 35 kg (33 lbs to 77 lbs) 35 kg to 55 kg (77 lbs to 121 lbs) Above 55 kg to 200 kg (121 lbs to 441 lbs)
Protocol with therapeutic measures for	Tachypnoea, Severe Tachypnea, Insufficient Ventilation, Hypoventilation, Central Hypoventilation, Hyperventilation, Unexplained Hyperventilation
Spontaneous Breathing Trial (SBT)	Automatic
Notification for readiness to separate from ventilator	Automatic
Notification for user action to change PEEP	Automatic
Combination with other options	Automatic Tube Compensation (ATC™) for patients above 35 kg (77 lbs) of body weight
Pressure change limit	Max. 4 cmH <sub>2</sub> O



**Settings**

Medical history	COPD, Neurological Disorder
Body weight	15 kg to 200 kg (33 lbs to 441 lbs)
Airway access	Endotracheal, tracheotomized
Humidification	Active humidifier, HME
Night rest	Weaning pause, Time, Length
Manual pressure support override	At any time

**Monitoring**

Trend	Classification, SC-P <sub>supp</sub> Time range last 1- 24 h
Logbook	Classification, Phase, Automatic and manual changes in P <sub>supp</sub>
Remote access	Built in Web Server

**Safety**

Alarms	Independent regular ventilator alarms Additional alarms for SmartCare®/PS
Apnea ventilation	Automatic

## Reference:

- [1] MacIntyre, N.; and the writing committee and Task force of the American College of Chest Physicians.  
Evidence-Based Guidelines for weaning and discontinuing Ventilatory support. Chest 2001;120:375S-395S.

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according to ISO 13485, ISO 9001  
and Annex II.3 of Directive 93/42/EEC  
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