



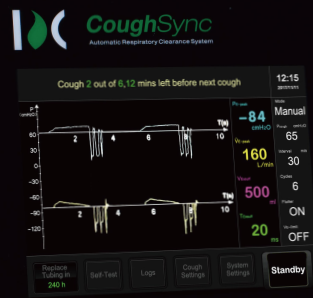
# CoughSync

In Exsufflators

## CoughSync100EU

### Automatic Respiratory Clearance System

- Breakthrough Innovation in ICU Airway Nursing
- A Unique and Effective Solution for Invasively Ventilated Patients





## Automatic, Non-Invasive, Secretion Clearance in the ICU

- The CoughSync Automatic Respiratory Clearance System clears secretions from the airways of patients on invasive ventilation in the ICU without interrupting their ventilation, and is the first true alternative to invasive catheter suction for this clinical population.
- CoughSync is an add-on accessory, compatible with most ICU ventilators, and uses RXmed's proprietary In-Line Mechanical Inexsufflation (IL-MIE) technology to clear airway secretions by simulating the airflow dynamics of a natural cough.
- CoughSync works automatically and non-invasively to maintain airway patency while avoiding the traumatic, disruptive and infective complications of invasive catheter suction.
- CoughSync is the 21st Century application of a tried and tested secretion clearance concept dating back to the 1950's.

## Advantages

- Potentially decreases the risk of VAP (Ventilator Associated Pneumonia)
- More effective than manual catheter suction
- No airway scarring or bleeding
- Avoids the hemodynamic disturbances of catheter suction
- No patient discomfort
- Saves staff time and decreases nurse workload
- Possibility of more rapid weaning from ventilation



### Disposable Suction Tubing

Company Design Number: RC001-01A.1.002

Overseas Market Number: DU100EU-10

## Technical Features

- 8-inch touch screen with data and waveform display
- Ergonomic design with recessed handle
- Automatic or manually-initiated operation
- **Exsufflation flow rate:** >200 L/min
- **Cough suction pressure:** -30 to -90 cmH<sub>2</sub>O
- **Frequency of automatic treatments:** every 5 to 120 minutes
- **Coughs per treatment:** 1 to 10
- **Fully compatible with the following ventilation modalities:**
  - Assist Control
  - SIMV
  - Volume Control
  - Pressure Control
  - Pressure Support
- Optional "vibration" and "exsufflation volume limit" functions



## Proprietary Features

### SmartCycling:

Automatic cough initiation and termination, controlled by RXmed's intelligent algorithm, is characterized by effective and safe features

### Safe-Exsuff:

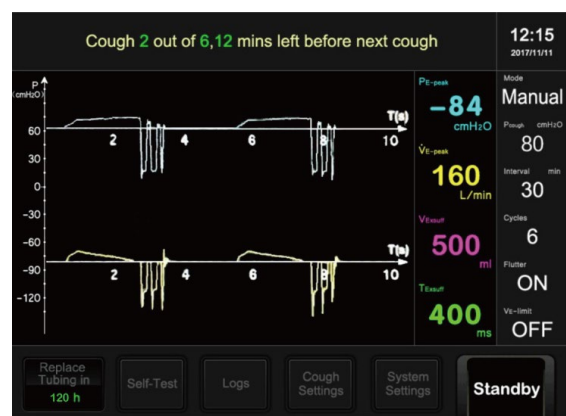
Precise control of expired cough volume maintains post-cough PEEP in critical conditions

### Comfort-Flutter:

Pressure oscillations during the cough enhance secretion mobilisation

### SyncMate Tubing:

An integrated ventilator tubing solution to connect CoughSync to any ventilator, and achieve optimal air and secretion flow



## Physical Parameters

**Overall Dimensions:**

300(L)×300(W)×260(H)mm

**LCD Screen:** 8 Inch,TFT

**Weight:** 5.7 kg

**Working Power:** ≤200 VA

**Noise:** ≤65dB(A)

## Working Environment

Temperature: 5℃~40℃

Humidity: 15%~95%,no condensation

Atmospheric Pressure: 700hPa~1060hPa

Transportation & Storage:

Temperature: -20℃~55℃

Humidity: 15%~95%,no condensation

Atmospheric Pressure: 700hPa~1060hPa

## Working Conditions

**Power Supply:** 100-240VAC,50-60Hz

**High Pressure Oxygen Supply:**

Pressure: 241-600 KPa

Flow Rate ≥50 L/min

## Accessories

Disposable Suction Tubing

[Company Design Number:RC001-01A.1.002

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AC Power Cord

High-pressure Oxygen tube

Table Trolley with Lifting Hook

## Contraindications

1. Lung Bullae
2. Pneumothorax or Pneumomediastinum
3. Cardiogenic Pulmonary Edema
4. ARDS necessitating continuous high PEEP
5. Hemodynamic instability
6. Recent airway surgery or trauma
7. Acute Spinal Shock

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