



# Meet the changing needs of your patients

Trilogy100, advanced ventilator technology

**PHILIPS**

RESPIRONICS

# Trilogy100, unique features for unique patients

Trilogy100, a versatile life support ventilator developed by Respironics, an innovator of bi-level technology, combines unique levels of flexibility with ease of use and advanced technology to revolutionize the management of respiratory related diseases.

## Versatility

Adapting to both patient and clinician environments, Trilogy100 provides 2 circuit types, with a leak or a valve, delivering for both configurations volume control or pressure control ventilations, through either non-invasive or invasive interfaces to meet the needs of adult and pediatric patients (> 5 kg) alike.

This built-in flexibility means Trilogy100 can treat a wide range of respiratory conditions, including those that require frequent changes to the patient's prescription.

## Performance

When configured with the passive exhalation port circuit, Trilogy100 provides the following Philips Respironics well known technology:

- Auto-TRAK algorithm that ensures optimized patient-ventilator synchronization and advanced leak compensation in invasive and non-invasive ventilation for pressure modes, as well as – for the first time ever – volume modes.
- AVAPS (Average Volume Assured Pressure Support) hybrid ventilation in pressure modes for invasive and non-invasive modalities.

## Simplicity

Whether it's being used for hospital titration or in the home, Trilogy100 has an intuitive interface that combines ease of use with access to high levels of versatility and performance.

Trilogy100 is a portable ventilator providing up to 6 to 8 hrs battery capacity with a detachable battery for continuous autonomy, giving patients the freedom they deserve.



In-use bag specifically designed for adaptation on wheelchair.



Color-friendly user interface, customizable to both patient and clinician environment.



Hot swap detachable battery for continuous autonomy.

# Respironics advanced technology in a life support ventilator

## Patient perspective

Trilogy100 adapts to each patient's environment to provide comfortable and seamless support throughout the day.

- Attractive, compact design weighing less than 5 kg
- Internal and detachable batteries for continuous autonomy
- Large color screen
- Easy access to alarm and information logs for 'at-distance' diagnostic

## Clinician perspective

The time and resources constraints, as well as safety requirements, usually associated with hospital treatment are met by Trilogy100:

- Intuitive user interface
- Superior monitoring to give immediate feedback on patient's ventilation
- Internal battery back-up for intra-hospital transportation
- Comprehensive alarms – giving both audible and visual feedback

### Removable air path

to meet high level disinfection standards

**3 to 4 hrs internal battery life plus 3 to 4 hrs detachable battery life**

### SD card

that stores up to 1 yr of ventilation data

### O<sub>2</sub> connection

low pressure, up to 15 L/min

**Large customizable colored display**

### 2 possible circuit configurations:

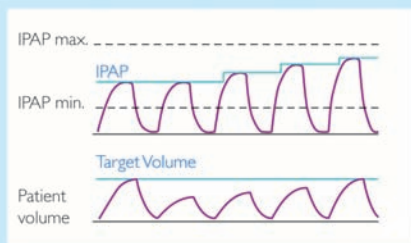
- circuit with passive exhalation port



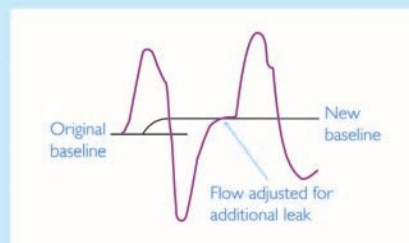
- circuit with active exhalation valve and proximal pressure line



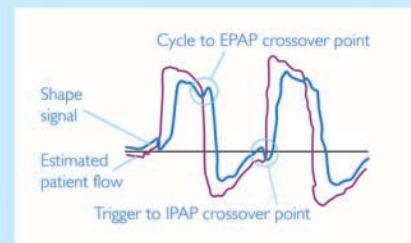
### AVAPS hybrid ventilation



### Digital Auto-TRAK algorithm



Advanced leak estimation and compensation



Automatic triggers

AVAPS hybrid ventilation automatically adjusts pressure to compensate for changing workloads of patient ventilation and ensure an average tidal volume.

Digital Auto-TRAK provides automatic triggering and advanced leak compensation optimizing patient-ventilator synchronization and ventilation efficacy.



# Close patient follow-up for long-term efficacy



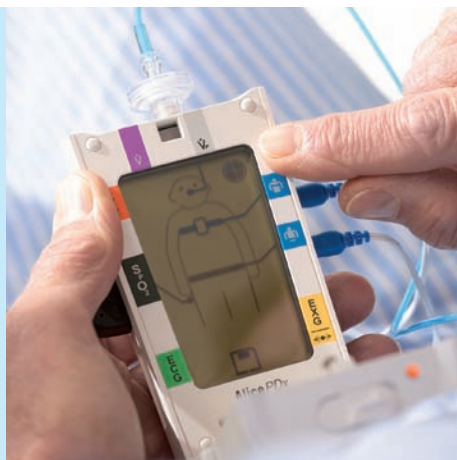
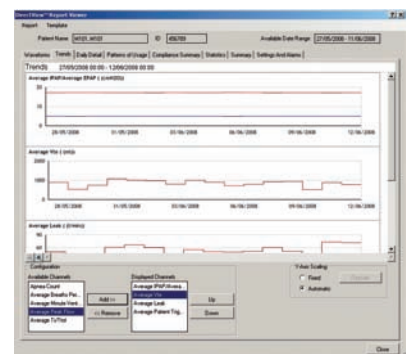
## DirectView

Trilogy100 is fitted with a 1GB SD card that stores all necessary ventilation data. This data is monitored by DirectView software, which manages patient ventilation therapy and identifies when any adjustments are necessary to maintain an effective treatment. DirectView also offers a complete set of ventilation reports that are fully customizable depending on the practice and/or patient's disease. Furthermore, ventilation data can be exported for supplementary analysis in a number of statistical applications, including Microsoft Excel.

DirectView provides a complete view into respiratory therapy for improved patient care:

- 72 hours of raw data to monitor a patient's breath-by-breath waveform
- Daily details, displaying the patient's therapy for the past 30 days
- Trend overviews of the past 12 months displaying pressure, breath rate, percentage of triggered breaths, peak inspiratory patient flow, estimated exhaled tidal volume, leak, Ti/Ttot and minute ventilation

Trilogy100, through direct connection to Alice PDx and Alice5, provides detailed information on patient ventilation in parallel with polysomnograph signals (SpO<sub>2</sub>, EMG, ECG, etc.).



Direct connection to Alice PDx and Alice5 polysomnographs.



1GB SD card to store up to 1 year of ventilation data.



DirectView software to accurately and efficiently follow patient ventilation.

# Simple ventilation, sophisticated technology

Product specifications	
Ventilation modes	<ul style="list-style-type: none"> <li>• Pressure modes (CPAP, S, ST, PC, T, PC-SIMV)</li> <li>• Volume modes (AC, CV, SIMV)</li> <li>• AVAPS hybrid ventilation (only with passive exhalation port circuit)</li> <li>• Dual prescription</li> <li>• Invasive and non-invasive capabilities</li> <li>• For adults and children (&gt; 5 kg)</li> </ul>
Circuit configurations	<ul style="list-style-type: none"> <li>• Passive exhalation port circuit Tube directly connected to masks (with integrated leak or exhalation port connector) or to the Whisper Swivel II for connection to a tracheostomy tube</li> <li>• Active exhalation valve circuit</li> </ul>
Triggers	<ul style="list-style-type: none"> <li>• Auto-TRAK sensitivity (only with passive exhalation port circuit)</li> <li>• Adjustable Flow Triggers</li> </ul>
IPAP	<ul style="list-style-type: none"> <li>• 4 to 50 cm H<sub>2</sub>O</li> </ul>
EPAP	<ul style="list-style-type: none"> <li>• 0 to 25 cm H<sub>2</sub>O with active exhalation valve</li> <li>• 4 to 25 cm H<sub>2</sub>O with passive exhalation port</li> </ul>
PEEP	<ul style="list-style-type: none"> <li>• 0 to 25 cm H<sub>2</sub>O with active exhalation valve</li> <li>• 4 to 25 cm H<sub>2</sub>O with passive exhalation port</li> </ul>
Pressure support	<ul style="list-style-type: none"> <li>• 0 to 30 cm H<sub>2</sub>O</li> </ul>
Tidal volume	<ul style="list-style-type: none"> <li>• 50 to 2000 ml</li> </ul>
Breath rate	<ul style="list-style-type: none"> <li>• Up to 60 BPM</li> </ul>
Inspiratory time	<ul style="list-style-type: none"> <li>• 0.3 to 5 seconds</li> </ul>
Rise time	<ul style="list-style-type: none"> <li>• 1 (100 ms) to 6 (600 ms)</li> </ul>
O <sub>2</sub> inlet	<ul style="list-style-type: none"> <li>• Back of the device (low pressure) up to 15 L/min</li> </ul>
Size	<ul style="list-style-type: none"> <li>• 16.68 cm (L) x 28.45 cm (W) x 23.52 cm (H)</li> </ul>
Weight	<ul style="list-style-type: none"> <li>• 5 kg (with detachable battery)</li> </ul>
Customizable user interface	<ul style="list-style-type: none"> <li>• Full detailed configuration for hospital use</li> <li>• Limited detailed configuration for home use</li> </ul>
Bags	<ul style="list-style-type: none"> <li>• Carrying bag</li> <li>• In-use bag</li> </ul>
Settable alarms	<ul style="list-style-type: none"> <li>• Patient disconnection</li> <li>• Apnoea</li> <li>• Low/high tidal volume</li> <li>• Low/high minute ventilation</li> <li>• Low/high respiratory rate</li> <li>• Low/high inspiratory pressure (in volume modes)</li> </ul>
Monitoring	<ul style="list-style-type: none"> <li>• Exhaled tidal volume</li> <li>• Exhaled minute ventilation</li> <li>• Leak rate</li> <li>• Respiratory rate</li> <li>• Peak inspiratory flow</li> <li>• Peak inspiratory pressure</li> <li>• I:E ratio</li> <li>• Mean airway pressure</li> </ul>
Battery	<ul style="list-style-type: none"> <li>• Internal battery: 3 to 4 hours</li> <li>• Detachable battery: 3 to 4 hours</li> <li>• External battery connection : 12VDC</li> </ul>
Data management	<ul style="list-style-type: none"> <li>• DirectView software</li> <li>• 1 GB SD card data storage</li> </ul>
Polygraph and polysomnograph connections	<ul style="list-style-type: none"> <li>• Direct connection to Alice PDx and Alice 5 PSG</li> <li>• AOM to connect to most PSG systems</li> </ul>

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