Meet the changing needs of your patients

Trilogy Series, with advanced ventilator technology

PHILIPS

RESPIRONICS

sense and simplicity

Trilogy100 and Trilogy200, unique features for unique patients

The Trilogy Series, versatile life support ventilators developed by Philips Respironics - an innovator of bi-level technology, combines unique levels of flexibility with ease of use and advanced technology to revolutionise the management of respiratory related diseases.

Versatility

Adapting to both patient and clinician environments, the Trilogy series fits with a circuit with a leak ('Passive Circuit') or a circuit with a Valve ('Active circuit with PAP' and 'Active circuit with Flow'*) delivering for all 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 the Trilogy Series can treat a wide range of respiratory conditions, including those that require frequent changes to the patient's prescription.

*'Active with Flow' circuit type is available in the Trilogy200 only.

Performance

When configured with the passive circuit, the Trilogy Series provides the following Philips Respironics well known technologies:

- Advanced leak compensation in invasive and non-invasive ventilation for pressure modes, as well as – for the first time ever – volume modes.
- Auto-TRAK algorithm providing automatic trigger and cycle thresholds to maintain optimum sensitivity eliminating the need for adjustments.
- AVAPS (Average Volume Assured Pressure Support) hybrid ventilation in pressure modes for invasive and non-invasive modalities.

The Trilogy200 fits with a circuit type 'Active With Flow' using a single limb circuit with an active exhalation valve and a proximal flow sensor. This proximal flow sensor allows accurate exhaled gas measurement as well as advanced flow triggering sensitivity and leak compensation for the most difficult patients.

Simplicity

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

The Trilogy Series portable ventilators offer up to 6 to 8 hours battery capacity for continuous autonomy, giving patients the freedom they deserve.

Advanced triggering sensitivity for the most difficult patients.

In-use bag specifically designed for adaptation on wheelchair.

Hot swap detachable battery for continuous autonomy.

Respironics advanced technology in a life support ventilator

Removable air path
to meet high level disinfection standards

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

3 circuit types

SD card
that stores up to 1 yr ventilation data

O_2 connection
low pressure, up to 15 L/min

Large coloured display
can be customised to patient and clinician environment

Patient circuit configurations

Passive
- circuit with passive exhalation port

In Trilogy100
In Trilogy200

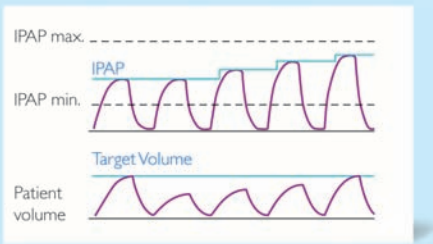
Active with PAP
- circuit with active exhalation valve and proximal pressure line

In Trilogy100
In Trilogy200

Active with FLOW
- circuit with active exhalation valve and proximal flow sensor

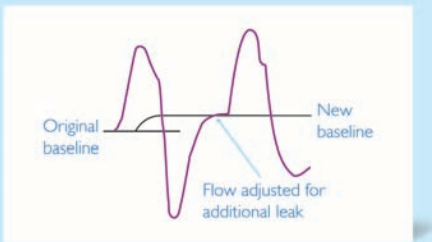
In Trilogy200

AVAPS hybrid ventilation



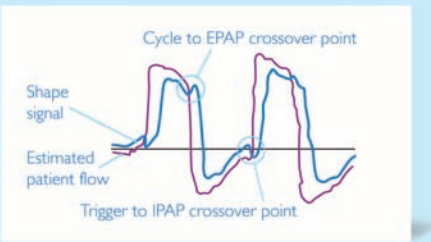
AVAPS hybrid ventilation automatically adjusts pressure to compensate for changing workloads of patient ventilation and provides an average tidal volume.

Leak estimation and compensation



Both Auto-TRAK and Flow triggering leverage on leak estimation and compensation to provide the highest trigger sensitivity. Leak estimation also allows exhaled tidal volume estimation in passive circuit.

Digital Auto-TRAK algorithm



Digital Auto-TRAK provides automatic trigger adjustment to meet the changing breathing patterns and optimise patient–ventilator synchronisation.

Close patient follow-up for long-term efficacy

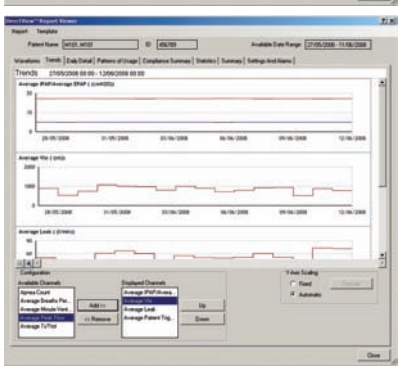
DirectView

The Trilogy Series are fitted with a SD card that stores all necessary ventilation data. This data is analized 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:

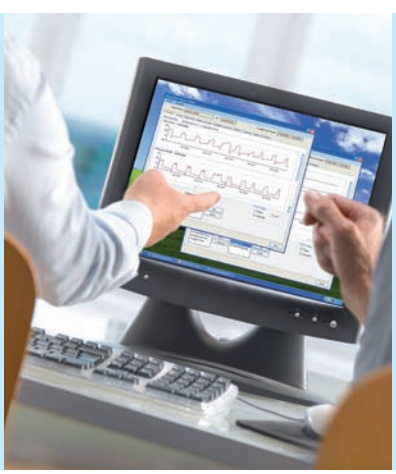
- 72 hours of raw data to monitor a patient's breath-by-breath waveform
- Daily details, displaying the patient's therapy for the past 30 days
- Trend overviews of the past 12 months displaying pressure, breath rate, percentage of triggered breaths, peak inspiratory patient flow, estimated exhaled tidal volume, leak, Ti/Ttot, minute ventilation and SpO_2 (when connected to the oximetry kit)

Trilogy Series, through direct connection to Alice PDx and Alice5, provides detailed information on patient ventilation in parallel with polysomnograph signals (SpO_2, EMG, ECG, etc.).



Direct connection to Alice PDx and Alice5 polysomnographs.

SD card to store up to 1 year ventilation data.



DirectView software to accurately and efficiently follow patient ventilation.

Simple ventilation, sophisticated technology

Product specifications	
Ventilation modes	• Pressure modes (CPAP, S, ST, PC, T, PC-SIMV) • Volume modes (AC, CV, SIMV) • AVAPS hybrid ventilation (only with passive exhalation port circuit) • Dual prescription • Invasive and non-invasive capabilities • For adults and children (> 5 kg)
Circuit configurations	• Passive exhalation port circuit • Active exhalation valve circuit with proximal pressure line • Active exhalation valve circuit with proximal flow sensor (available on the Trilogy200 only)
Triggers	• Auto-TRAK sensitivity (only with passive exhalation port circuit) • Adjustable flow triggers
IPAP	• 4 to 50 cmH_2O
EPAP	• 0 to 25 cmH_2O with active exhalation valve • 4 to 25 cmH_2O with passive exhalation port
PEEP	• 0 to 25 cmH_2O with active exhalation valve • 4 to 25 cmH_2O with passive exhalation port
Pressure support	• 0 to 30 cmH_2O
Tidal volume	• 50 to 2000 ml
Breath rate	• Up to 60 BPM
Inspiratory time	• 0.3 to 3 seconds
Rise time	• 1 (100 ms) to 6 (600 ms)
O_2 inlet	• Back of the device (low pressure) up to 15 L/min

Size	• 16 (L) x 28 (W) x 23 (H)
Weight	• 5 kg (with detachable battery)
Customizable user-interface	• Full detailed configuration for hospital use • Limited detailed configuration for home use
Bags	• Carrying bag • In-use bag
Settable alarms	• Patient disconnection • Apnoea • Low/high tidal volume • Low/high minute ventilation • Low/high respiratory rate • Low/high inspiratory pressure (in volume modes) • Low SpO_2*
Monitoring	• Exhaled tidal volume • Exhaled minute ventilation • Leak rate • Respiratory rate • Peak inspiratory flow • Peak inspiratory pressure • I:E ratio • Mean airway pressure • SpO_2*
Battery	• Internal battery: 3 to 4 hours • Detachable battery: 3 to 4 hours • External battery connection : 12 VDC
Data management	• DirectView software • 1 GB SD card data storage
Polygraph & Polysomnograph connections	• Direct connection to Alice PDx and Alice 5 PSG • AOM to connect to most PSG systems

* When SpO_2 module connected using the Trilogy SPO_2 cable: PN 1080964

	Circuit type		
	Passive	Active with PAP	Active with Flow
Ventilation type	Volume and pressure modes for non-invasive and invasive modalities		
	Minimum PEP of 4 required	Allows 0 PEP	Allows 0 PEP
Leak compensation	Exceptional	Good	Very good
Triggering	Auto-TRAK & Flow	Flow	Advanced flow triggering
Exhaled gas monitoring	Estimation	—	Measurement
Trilogy100	✓	✓	—
Trilogy200	✓	✓	✓

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