PHILIPS

Trilogy EV300

Transitioning to the future. Advancing respiratory care today.

When you're treating respiratory patients, you never know what today will bring. One thing is for sure: Transitions occur often, and for any number of reasons. Conditions fluctuate. Patients are moved. Therapy modes are changed. Each time, patient care can be disrupted, causing needless stress for the team. That's why Philips is making a transition of its own – to an even brighter future in respiratory care.

Introducing the Trilogy EV300 – a ventilator that can benefit a broad spectrum of patients, from newborns* to adults. Developed specifically for hospital environments, Trilogy EV300 provides both invasive mechanical ventilation and noninvasive ventilation, a wide variety of circuit options, and a range of monitoring capabilities for patients at or above 2.5 kg. It's simple to use and offers key features such as lung parameters estimation, ability to set up to 60 cmH_2O peak pressure, and a range of therapy modes.

Specifications

Ventilation modes

A/C-PC: Assist control (pressure control)
A/C-VC: Assist control (volume control)
CPAP: Continuous positive airway pressure
PSV: Pressure support ventilation
S/T: Spontaneous/timed ventilation
SIMV-PC: Synchronized intermittent mandatory ventilation (pressure control)
SIMV-VC: Synchronized intermittent mandatory ventilation (volume control)
AVAPS-AE

Physical

Weight	5.8 Kg (12.7 lbs) with detachable battery 6.3 Kg (13.8 lbs) with oxygen blender and detachable battery
Size	With oxygen blender: 19.3 cm D x 28.6 cm W x 24.5 cm H 7.6" D x 11.25" W x 9.65" H
Screen dimensions	8", 20.32 cm
Ingress protection	IP22: protection against finger-sized objects and protected against dripping water when tilted up to 15 degrees.

Oxygen

Low flow	0 to 30 l/min; maximum 10 psi
High pressure	280 to 600 kPa (41 to 87 psi)

Measured and displayed patient parameters

Tidal volume (Vti or Vte)	0 to 2000 ml
Minute ventilation (MinVent)	0 to 30 l/min
Leak	0 to 200 l/min
Respiratory rate (RR)	0 to 90 BPM
Peak inspiratory flow (PIF)	0 to 200 l/min
Peak inspiratory pressure (PIP)	0 to 90 cmH_2O
Mean airway pressure	0 to 90 cmH_2O
Percentage spontaneous triggered breaths (%Spont Trig)	0 to 100%
I:E ratio	9.9:1 to 1:9.9
Dynamic compliance (Dyn C)	1 to 100 ml/cmH_2O
Dynamic resistance (Dyn R)	5 to 200 cmH_2O/l/sec
Dynamic plateau pressure (Dyn Pplat)	0 to 90 cmH_2O
Auto-PEEP	0 to 20 cmH_2O
FiO_2 with FiO_2 sensor	21% to 100%
SpO_2 with pulse oximeter accessory	0 to 100%
Pulse rate with pulse oximeter accessory	18 to 321 beats per minute
$EtCO_2$ with CO_2 accessory	0 to 150 mmHg

Electrical

AC input voltage	100V - 240V, 50/60 Hz, 1.7 - 0.6A
DC input voltage	12/24V 6.5A
Internal and detachable Li-ion batteries	15 hours' nominal total run time per method in IEC 80601-2-72 (7.5 hours each battery)
Charge time for detachable and internal battery	from 0% to 80%: 2.5 hours from 0% to 100%: 3.5 hours

Specifications *(continued)*

Alarms

Inspiratory Pressure	1 - 90 cmH_2O
Tidal Volume	OFF, 10 - 2000 ml
Minute Ventilation	OFF, 0.2 - 30 L/min
Respiratory Rate	OFF, 1 - 90 BPM
Circuit Disconnection	OFF, 5 - 60 sec
Apnea Interval	5 - 60 sec

Environmental

Operating	Temperature: 0°C to 40°C Relative humidity: 5% to 90% RH, non-condensing Atmospheric pressure: 62 to 106 kPa Altitude: -1261 to 12,971 feet Battery charging temperature: 5°C to 40°C
Transient operating temperature	-20°C to 50°C
Storage temperature	Temperature: -25°C to 70°C Relative humidity: 5% to 93% RH, non-condensing

Controls

AVAPS with passive circuit	PSV, S/T, and A/C-PC modes only
Tidal volume	35 - 2000 ml on Dual Limb and Active Flow circuits, 50 - 2000 ml on passive and active PAP circuits
Breath rate	0 - 80 BPM
PEEP	0 - 35 cmH_20 for active circuits 3 - 25 cmH_20 for passive circuits
EPAP/CPAP	3 - 25 cmH_20
IPAP	3 - 60 cmH_20
Pressure support/ pressure control	0 - 60 cmH_20
Inspiratory time	0.3 - 5.0s
Rise time	0 - 6
Triggering and cycling	Off, Auto-Trak, Sensitive Auto-Trak, and Flow Trigger
Flow trigger sensitivity	0.5 - 9 l/min
Flow cycle sensitivity	10% - 90% of peak flow
Flow pattern	Square, Ramp
FiO_2	21% - 100%
Inspiratory time min/max	0.3 - 3.0 sec
Backup ventilation	ON - OFF

Standards

General	• IEC 60601-1-1 Medical electrical equipment. Part 1-1: General requirements for safety. Collateral standard: Safety requirements for medical electrical systems
Collateral	• IEC 60601-1-11 Home Health Care Environment according to transit-operable usage
Particular	Device essential performance is specified in each of the following standards: • ISO 80601-2-72 Medical electrical equipment. Part 2-72: Particular requirements for basic safety and essential performance of home healthcare environment ventilators for ventilator-dependent patients • ISO 80601-2-12: Medical electrical equipment. Part 2-12: Particular requirements for basic safety and essential performance of critical care ventilators • ISO 80601-2-61 Medical electrical equipment. Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment • ISO 80601-2-55 Medical electrical equipment. Part 2-55: Particular requirements for the basic safety and essential performance of respiratory gas monitors
Wireless communication	• Bluetooth Core Specification version 4.1 • ISO/IEC 18092:2013: Information technology. Telecommunications and information exchange between systems. Near Field Communication. Interface and Protocol (NFCIP-1) • ISO IEC 21481 ed 2.0: Information technology. Telecommunications and information exchange between systems. Near Field Communication Interface and Protocol -2 (NFCIP-2) • ISO/IEC 14443 ed 2.0: Identification cards. Contactless integrated circuit cards. Proximity cards. • WLAN Standard: IEEE 802.11 (2012) b/g/n: Information technology. Telecommunications and information exchange between systems. Local and metropolitan area networks. Specific requirements. Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications

*2.5 kg and above.

Caution: Federal law restricts this device to sale by or on the order of a physician.

MCI 4109450 V01 PN 1144954

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