

Specifications

Basic Description

Electrically Powered, Computer Controlled Ventilator
Control Principle: Closed Loop Flow & Pressure Controller
Ventilation Modes:

- Assist Control (A/C):
 - Volume Controlled A/C • Pressure Controlled A/C*
- Synchronized Intermittent Mandatory Ventilation (SIMV):
 - Volume Controlled SIMV • Pressure Controlled SIMV*

Adaptive Bi-Level
Continuous Positive Airway Pressure (CPAP)
Pressure Support Ventilation (PSV)

Special Modes of Operation:

- Preset Parameters by Patient Weight
- Adaptive Flow™
- Adaptive Time™
- Backup Apnea Ventilation
- Sigh Breath
- Adjustable Rise Time
- Easy Exhale™
- 100% O₂ Suction

Ventilation Performance and Controlled Parameters

Respiratory Rate	1 to 80 BPM
Tidal Volume	50 to 2,000 ml
Inspiratory Pressure Limit	5 to 80 cm H ₂ O
Inspiratory Time	Adaptive Time™, or 0.3 to 3 seconds
Peak Flow	Adaptive Flow™ or 1 to 120 L/min Spontaneous up to 180 L/min
Oxygen Mix (FIO ₂)*	21% to 100%
PEEP	0 to 40 cm H ₂ O
Trigger Sensitivity	1 to 20 L/min Flow Sensitivity + off -0.5 to -20 cm H ₂ O Pressure Sensitivity + off
PSV	0 to 60 cm H ₂ O
Positive Pressure Relief Valve	80 cm H ₂ O

Monitoring and Displayed Parameters

Airway Pressure (analog bar graph & numerical)
Total Breath Rate
I:E Ratio
Exhaled Tidal Volume
Exhaled Minute Volume
Peak Flow
Inspiratory Time
Electrical Power Source (external / internal)
Battery Level
Pressure, Flow and Volume Waveforms Software Package:*
Real Time Pressure and Flow Waveforms
Waveform History Browse
Trending of Monitored Data
Respiratory Diagnostics Software Package:*
Pressure, Flow and Volume Loops
Lung Mechanics (C, R, MAP)

User Adjustable Alarms

Respiratory Rate (high / low)	Apnea (0 to 120 seconds)
Minute Volume (high / low)	FIO ₂ (high / low)
Pressure (high / low)	Leak (0 to 100%)
Low Vt (15%-85%)	

Additional Alarms and Indicators

Alarms:	Indicators:
Inverse I:E Ratio	Alarm Silence Icon & Timer
Low O ₂ Pressure	Breath Type Icon
AC Disconnect	Internal Battery Use
Low Battery	Date and Time
Over Temperature	Hour Meter
Service Notice	Battery Charge Level
Patient Disconnect	Need Calibration
Check Sensor	LED: On, Charge, Alarm
High PEEP	

Size and Weight

Dimensions:
Height 13" / 33 cm
Width 9.5" / 24 cm
Depth 10.3" / 26 cm
Screen 8.4" diagonal
Weight 15.4 lb / 7 kg (without battery)
Battery Weight 6.5 lb / 3 kg
Overall Weight 22 lb / 10 kg

Power Supply

External AC	100 to 240 V, 50 to 60 Hz, Max 2.0 A
External DC	12 to 15 V, Max 8.5 A
Internal Battery	Sealed Lead-Acid 12 V (7.8 Ah) (rechargeable)
Operating Time	Up to 2 hours (depending on ventilation parameters)

Oxygen (enrichment) Supply

High Pressure Supply	40 to 60 psi (2.8 to 4.2 bar)
Low Pressure	Max 80 L/min or 0.5 psi

External Interface

Remote Monitor (VGA)	DIN Keyboard Connector
RS-232 Serial Port, 9 Pin	RJ11 Remote Alarm Connector

Environmental Specifications

Operating Temperature	0 to 50° C / 32 to 120° F
Storage Temperature	-15 to 70° C / -4 to 140° F
Relative Humidity	15 to 95% at 30°C / 85°F
Water / Dust Resistance	IP54 (Splash Proof)
Atmospheric Pressure	430 to 825 mm Hg (15,000 feet)
Vibration	IEC 68-2-6 and IEC 68-2-34 MIL-STD-810E
Shock	IEC 68-2-27 (100g) MIL-STD-810E
Total External Sound Level	40-45 dBa at one meter

Standards and Safety Requirements

Meets the requirements of:
ASTM F1100-90
CSA C22.2 No. 601.1 / 601.2
IEC 60601-1
IEC 60601-1-2
EN 60601-2-12
EN 794-1 / 2 / 3
ISO 10651-1 / 2 / 3
UL 2601.1

iVent201 Ventilator Systems

iVent201 IC+AB (Intensive Care + Face Mask Ventilation in Adaptive Bi-Level Mode):

Modes: Pressure Control (A/C or SIMV), Volume Control (A/C or SIMV), CPAP/PSV, Adaptive Bi-Level (Face Mask Ventilation)
Software Packages Included: Pressure, Flow and Volume Waveforms, Trending and Respiratory Diagnostics
Internal Oxygen Mixer with Sensor, High and Low Pressure Oxygen

iVent201 IC (Intensive Care):

Modes: Pressure Control (A/C or SIMV), Volume Control (A/C or SIMV), CPAP/PSV
Software Packages Included: Pressure, Flow and Volume Waveforms, Trending and Respiratory Diagnostics
Internal Oxygen Mixer with Sensor, High and Low Pressure Oxygen

iVent201 AB (Face Mask Ventilation in Adaptive Bi-Level Mode):

Modes: Adaptive Bi-Level (Face Mask Ventilation), CPAP/PSV
Software Packages Included: Pressure, Flow and Volume Waveforms, Trending and Respiratory Diagnostics
Internal Oxygen Mixer with Sensor, High and Low Pressure Oxygen

iVent201 HC (Home Care):

Modes: Volume Control (A/C or SIMV), CPAP/PSV
Low Pressure Oxygen



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The iVent201. Simplify.



The *iVent201*. Because every breath is important.



Patient care is complicated. Time is short. Costs are high. Patients often need two or three different kinds of ventilators as they move through a clinical episode. VersaMed makes it easier. With the iVent201, we can meet your diverse ventilation needs with one system.



Use it with a mask or an endotracheal tube.

Use it in the emergency room, critical care, sub-acute and transport.

Add new modes with software upgrades.

Make each breath more comfortable.

Reliable Critical Care Moves with the Patient

The *iVent201* offers critical care that's truly portable. A powerful ventilator, it's ideal for the emergency room and the ICU. But it doesn't stop there. The *iVent201* goes everywhere your patient goes — nonstop. Equipped with rechargeable batteries and a turbine air source, it's designed to work while traveling from critical care to sub-acute and even home care—so you never have to switch machines.

Two Machines in One Both Face Mask and Invasive

The *iVent201* can be used with an endotracheal or tracheostomy tube or a face mask when you use the Adaptive Bi-Level option. Seamlessly transfer patients between leak-tolerant and invasive ventilation modes without having to switch machines. Save valuable time -- especially in the emergency room. Minimize training and equipment costs.

Remote Monitoring SpO2 Monitoring

The *iVent201* has groundbreaking features you won't find anywhere else—like remote monitoring and SpO2 Monitoring. With our remote feature, you can watch a graphic simulation of the ventilator working on your patient from anywhere via a standard phone connection. And now you can conveniently monitor oxygenation with one device.

Groundbreaking Comfort Patient Compatibility

The *iVent201*'s Adaptive Flow™ and Easy Exhale™ features provide unprecedented patient comfort. These breakthrough technologies keep patients from “fighting the ventilator” by letting their needs spontaneously determine flow rate. It's the difference between helping someone breathe and forcing them to breathe.

Easy to Learn Easy to Use

A machine you can master in minutes. Just dial in the patient's weight to start ventilating instantly. Monitor waveforms and diagnostics on the graphics screen and use the rotational control knob to make adjustments.

Simple Upgrades Savvy Investment

The *iVent201* is PC-based. So enhancements are just a download away. Stay up-to-date and reduce the need for costly new equipment and training. Use one machine for a variety of situations from EMS and ICU to transport and home care.