

# iVent™ 101

## Expert model

Offering clinical performance in a lightweight and user-friendly package, the iVent 101 portable ventilator is designed to provide effective care for a wide range of patients.

With its quiet, high performance pneumatics, touch screen color interface, on-board graphics, small footprint and long internal battery life, the iVent 101 is well suited to a variety of clinical needs. Use the iVent 101 with infants\* through adults, in invasive or non-invasive applications, and in both basic and advanced modes.

### Designed for specific patient needs.

To deliver just the functionality needed, the iVent 101 is available in four models: Performance, Signature, Expert and Discovery.

The iVent 101 Expert model offers pressure regulated volume control (PRVC), an advanced mode of ventilation that is typically available only in critical care ventilators.

PRVC combines the advantages of a pressure regulated mode and its decelerating inspiratory flow pattern with the ease of use of a volume control mode. The advanced PRVC mode may be used to optimize clinical efficacy and improve the patient transition to the home setting.

In addition, the iVent 101 Expert model includes standard volume and pressure control/assist control modes and synchronized intermittent mandatory ventilation (SIMV).

\*Denotes infants weighing 5kg or greater.



# Specifications

## BASIC DESCRIPTION

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*Note: The ventilation modes available vary by configuration.*

### Ventilation Modes:

- Assist control (A/C):
  - Volume controlled ventilation (VCV)
  - Pressure controlled ventilation (PCV)
  - Pressure regulated volume control (PRVC)
- Synchronized intermittent mandatory ventilation (SIMV)
  - Volume controlled ventilation (VCV)
  - Pressure controlled ventilation (PCV)
  - Pressure regulated volume control (PRVC)
- Continuous positive airway pressure/Pressure support ventilation (CPAP/PSV)
- Adaptive Bi-Level™ (invasive or non-invasive)

### Additional Features:

- Preset parameters by patient type
- Adaptive Peak Flow™ with Adaptive I-Time™ Easy Exhale™
- Apnea backup ventilation

## VENTILATION PERFORMANCE AND CONTROLLED PARAMETERS

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Respiratory rate:	1 to 80 BPM
Tidal volume/limit:	40 to 2,500 ml
Inspiratory pressure/limit:	5 to 60 cm H <sub>2</sub> O
Inspiratory time:	0.3 to 3 sec
Peak flow:	Adaptive Peak Flow, or 5 to 120 L/min Spontaneous flow up to 200 L/min
PEEP:	0 to 45 cm H <sub>2</sub> O
Trigger sensitivity with dual flow and pressure triggering:	1 to 9
PSV:	3 to 60 cm H <sub>2</sub> O
Rise time:	0 to 9
ESens (flow termination):	5 to 80%

## MONITORING AND DISPLAYED PARAMETERS

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- Airway pressure (analog bar graph & numerical)
- Total breath rate
- Peak inspiratory pressure
- FIO<sub>2</sub> (monitoring only)
- I:E ratio
- Exhaled tidal volume
- Exhaled minute volume
- Peak flow
- Electrical power source (external/internal)
- I-Time
- Battery level
- Waveforms – real-time pressure and flow
- Screen lock

## VENTILATOR CONFIGURATIONS

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- Standard circuit – single limb
- Standard circuit – double limb
- Easily adjustable 3 screen views (clinical, daytime and nighttime) with auto-dimming feature

## USER ADJUSTABLE ALARMS

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- Respiratory rate (high/low)
- Minute volume (high/low)
- Pressure (high/low)
- Apnea time:
  - Adult Min: 10 sec; Max: 60 sec; Default: 20 sec
  - Pediatric (Child) Min: 5 sec; Max: 30 sec; Default: 15 sec
  - Infant Min: 5 sec; Max: 20 sec; Default: 10 sec
- FIO<sub>2</sub> (high/low)
- Patient disconnect (on/off)

## ADDITIONAL ALARMS AND INDICATORS

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### Alarms:

- Set pressure not delivered
- Vt not delivered
- Integrated battery failure
- Occlusion
- Volume limit reached
- Emergency backup
- AC power disconnect
- O<sub>2</sub> sensor worn out
- Battery empty
- Low battery
- Over temperature
- Service notices

### Indicators:

- O<sub>2</sub> calibration required
- O<sub>2</sub> sensor disconnect
- VVT recommended
- OVT recommended
- Lost last clinical settings
- Lost last apnea settings
- Lost last user configuration
- Sensor calibration required
- Lost last technical configuration
- Factory calibration required

## SIZE AND WEIGHT

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### Dimensions:

Height:	19 cm/7.5"
Width:	25.5 cm/10"
Depth:	25.3 cm/10"
Screen:	17.8 cm/7" diagonal
Overall weight:	6.1 kg/13.4 lb

### Power Supply:

External AC:	100 to 240 V, 50 to 60 Hz, Max 2.0 A
External DC:	24 to 28 V, Max 5 A
Internal battery:	Standard: up to 4 hours Extended: up to 6.5 hours
External battery:	up to 10 hours (depending on ventilation parameters)

## OXYGEN (ENRICHMENT) SUPPLY

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### Low pressure:

- Flow: 20 L/min maximum
- Pressure: 100 cm H<sub>2</sub>O maximum

## EXTERNAL INTERFACE

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- Remote alarm
- USB

## ENVIRONMENTAL SPECIFICATIONS

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Operating temperature:	5° to 40° C/41° to 104° F
Storage temperature:	-20° to +60° C/-4° to +140° F
Relative humidity:	10 to 95% at 30°C/85°F
Water resistance:	IP 31
Operating altitude:	-440 m to 3,500 m/-1,440 ft to 11,482 ft
Random vibration:	IEC 60068-2-64 [2]
Shock:	IEC 60068-2-27 [2]
Total external sound level:	40 to 45 dB at one meter

## STANDARDS AND SAFETY REQUIREMENTS

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### Meets the requirements of:

- CSA C22.2 No. 601.1/601.2
- EN/IEC 60601-1
- EN/IEC 60601-1-2
- EN/IEC 60601-1-8
- IEC 60601-2-12
- UL 60601-1
- ISO 10651-2/6
- ASTM F 1100
- ASTM F 1246

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Our “healthymagination” vision for the future invites the world to join us on our journey as we continuously develop innovations focused on reducing costs, increasing access and improving quality and efficiency around the world.

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