Ventilators

IMPACT UNI-VENT 754

ABOUT

The Impact Univent 754 is a portable ventilator designed for various PEEP ventilation modes, including Assist Control, SIMV, CPAP, and CMV. It features an integrated compressor and blender, making it completely self-contained and eliminating the need for external gas sources. Suitable for patients from Neonatal to adult, it includes a backlit LCD screen for monitoring vital signs and alarm settings. Powered by an internal rechargeable battery with optional AC power connectivity, the system also offers an interactive demo and teaching mode. Additionally, it is certified for EMI/RFI and Air Medical use.



FEATURES

- **Compact and lightweight**
- **Operating Modes:** ACV, SIMV, CPA, and CMV
- **Fully self-contained system:** integrated compressor and oxygen blender eliminate the need for external gas sources during operation.
- **Wide patient range:** suitable for neonatal, pediatric, and adult patients across diverse care settings.
- **Clear visual monitoring:** backlit LCD screen displays vital parameters, settings, and alarm conditions for quick clinical assessment.
- **Flexible power options:** internal rechargeable battery with optional AC power ensures uninterrupted ventilation during transport.



Impact Univent 754

SPECIFICATIONS

OPERATING MODES

ACV – with/without PEEP, SIGH, and PRESSURE PLATEAU

SIMV – with/without PEEP SIGH and PRESSURE PLATEAU

CPAP – with/without PEEP

CMV – for Apnea backup of ACV, SIMV, and CPAP

GENERAL

Deliverable Gas(es) Air (Internal Compressor, External 50-PSI); Oxygen (External 50-PSI)

Tidal Volume Range: 0 to 3000 mL

I:E Ratio 1:1 Preset, Adjustable 1:1 to 1:599

Sensitivity Default, 1.5 to 2.0 cmH2O; Adjustable, 1.0 to 6.0 cmH2O

Flow Rate: Adjustable, 0 to approximately 60 LPM (0 to approximately 1000 ml/sec)

Ventilation Rate "Adjustable, 1 to 150 bpm, in 1bpm increments (±1 digit on the display panel)

Inspiration Time: Adjustable, 0.1 to 3 sec, in 0.1-sec increments (±1 digit on the display panel); 1:2 I: E RATION preset

FiO2: Adjustable, 21% to 100% (Internal Air/Oxygen Mixer), resolution in 1% increments, accurate to within ±10%

Low Pressure Alarm: Adjustable, 0 to 50 cmH2O, in 1 cmH2O increments (±1 digit on the display panel)

High Pressure Alarm: Adjustable, 15 to 100 cmH2O, in 1 cmH2O increments (±1 digit on the display panel)

Peek Inspiratory Pressure Relief: Adjustable, 15 to 100 cmH2O, in 1 cmH2O increments (±1 digit on the display panel)

Pressure Plateau Range: 5 to 90 cmH2O (referenced to HIGH PRESSURE ALARM set-point)

Assist/SIMV Sensitivity Default: 1.5 to 2.0 cm H2O below end pressure

PEEP Program range: 1 to 20 cmH2O, in 1 cmH2O increments (±1 digit on the display panel)

A sigh occurs once every 100 ventilations or 7 minutes, whichever occurs first. Sigh duration = 150% Vt (truncated to a combined maximum of 3 seconds)

Liquid Crystal Display External Air: Sigh, PEEP, Pressure Plateau, High-Pressure Alarm Setting, Low-Pressure Alarm Setting, Ventilation Rate, Inspiration time/I: E Ratio, Tidal Volume, Air/Oxygen Mixer, Mode, Inspiration/Exhalation, Power, Pear Airway Pressure, Mean Airway Pressure, Digital Bar Graph, High/Low, Airway Pressure Alarm Set point Indicators, Paw.

LED Indicators: Charge/Alarm/System Failure

LED Digital Bar Graph Range: -10 to 100 cmH2O

LCD Alarm Display Battery Low: External Power Low, Low Pressure, O2 Low/Fail, Disconnect, High Pressure, Apnea, Vt, High PEEP, Ext Air Low/Fail, FIO2, Inverse I/E, Comp, Pressure Alarm Settings, Transducer Calibration, Transducer Calibration Abort, System Failure, Ventilator Fail, Inspiration Time Truncated to 3-seconds, Plateau Volume, **Preventative Maintenance Due:** Vt Settings, Extended Non-Use/ Storage, External Power Failure