

# MEDUVENT Standard

## Ventilate Wherever You Go - Technical Details

Device dimensions (W x H x D in mm):	206 mm x 137 mm x 130 mm
Weight, incl. battery:	2.1 kg
Product class to Directive 93/42/EEC:	IIb
Temperature range (operating conditions):	-20 °C to +50 °C
Humidity (operating conditions):	5 % rh to 95 % rh, no condensation
Air pressure (operating conditions):	540 hPa to 1100 hPa
Altitude above sea level (operating conditions):	-500 m to 5,000 m
Operating time (Lithium ion battery):	Average 8 hours
Charging time (0 % - 95 %) Lithium ion battery:	2.5h (Assuming set for an adult)
Display:	TFT colour display 4.3"
Data storage:	Internal device memory and SD card
Ventilation modes (Mandatory/triggered):	IPPV S-IPPV SIMV Manuell PRVC + PS
Ventilation modes (Spontaneous breathing):	CPAP CPAP + PS
Operating gas:	Medical-grade oxygen (100 % O <sub>2</sub> ), concentrator oxygen (93 % O <sub>2</sub> ) can also be supplied
Operating pressure range:	0.3 bar to 6 bar
Monitoring:	Measured values displayed: MV <sub>i</sub> , O <sub>2i</sub> Bar graph: Pressure with pAW
Maximum outlet flow rate:	150 l/min
Tidal volume:	50 ml to 2000 ml
Ventilation rate:	5 min <sup>-1</sup> to 40 min <sup>-1</sup>
PEEP:	0 mbar to 20 mbar
Pressure limit (pMax)	10 mbar to 65 mbar
I:E:	1:2 fixed / 1:1 in Manual mode
Standards used:	Consistent serviceability confirmed on the ground and in the air to EN 13718-1, RTCA/DO 160G and EN 60601-1-12 Mechanical strength confirmed by successful shock and vibration tests to MIL-STD 810 G, RTCS/DO 160G and EN 1789 Confirmed as emergency and transport ventilator to EN 794-3 and ISO 10651-3