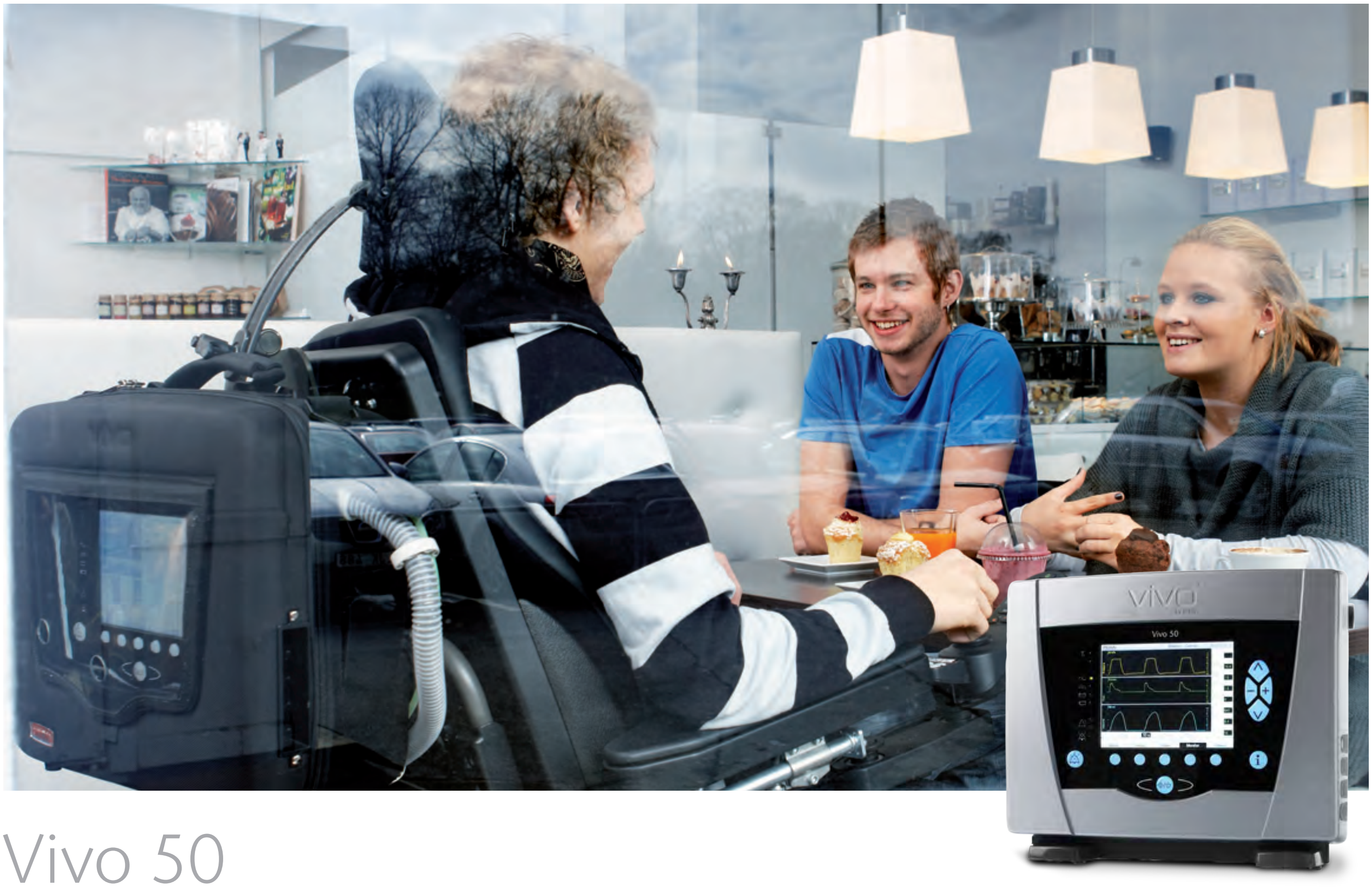

Vivo 50

The Vivo* 50 Life-Support Ventilator combines high quality technology with robust, premium Scandinavian design to provide excellent patient treatment in home and portable in various environments.

Vivo 50 includes a full range of settings, including target volume which leads to a strong combination of performance and flexibility.

Vivo 50 offers the possibility to pre-set up to three venti-lation profiles. Thanks to the user-friendly configuration of pressure and volume regulated modes, like the SIMV, the treatment can be personalised to the patient's needs. High flexibility of operation is provided by the multiple types of circuits for both invasive and non-invasive ventilation.

Vivo 50 is easy to learn, easy to operate and easy to explain. A full-colour screen and distinct buttons provide easy access to all functions. The menu structure is simple and effective. An i-button explains functions and alarms with a click.

Accessories enhance the Vivo 50 ventilators ease of use, performance, durability and cost-effective service for both the patient, clinical staff and homecare providers.

- Full monitoring allows view of waveforms, numerical data and trend monitoring.
- Easy direct access to menus on the user-friendly front panel.
- Freedom of operation thanks to a 4 hour internal battery and the option of an additional 8 hours from the click-on battery.
- The SpO_2, CO_2 and FiO_2 sensors give the unit high-end monitoring capabilities with on-screen values and alarms.
- Possibility to connect a remote alarm and nurse call system.
- The i-button makes information on alarms, settings and troubleshooting available.

Intended Use

The Vivo 50 ventilator (with or without the iOxy and CO_2 sensor) is intended to provide continuous or intermittent ventilatory support for the care of individuals who require mechanical ventilation. Specifically, the ventilator is applicable for pediatric through adult patients weighing at least 10 kg (22 lbs).

The Vivo 50 with the iOxy is intended to measure functional oxygen saturation of arterial hemoglobin (% SpO_2) and pulse rate.

The Vivo 50 with the CO_2 sensor is intended to measure CO_2 in the inspiratory and expiratory gas.

The device is intended to be used in home, institution, hospitals and portable applications such as wheelchairs and gurneys. It may be used for both invasive and non-invasive ventilation. Vivo 50 is not intended to be used as a transport ventilator and critical care ventilator.

Technical Specifications

Settings/Performance	
Ventilation Modes	• PSV • PCV • PCV(A) • VCV • CPAP • VCV SIMV • PSV(TgV) • PCV(TgV) • PCV(A+TgV) • VCV(A) • PCV SIMV • VCV-MPV • PCV-MPV
Device Modes	• Home • Clinical
Inspiratory Pressure	4 to 50 cmH_2O
PEEP	2 cmH_2O (leakage circuit), Off, 2 cmH_2O (circuit with active exhalation valve) to 30 cmH_2O Pressure - 2 cmH_2O or Min Pressure -2 cmH_2O
Breath Rate (PCV, VCV)	4 to 40 bpm
SIMV	4 to 40 bpm
Inspiratory Time	0.3 to 5 s
Backup Inspiratory Time	0.3 to 5 s (PSV)
Rise Time	1 to 9 (PSV & PCV) 50 - 90 %, Off (VCV)
Inspiratory Trigger	1 to 9 (PSV, PCV & VCV) Off (PCV & VCV)
Expiratory Trigger	1 to 9 (PSV)
Minimum Inspiratory Time	Off, 0.3 to 3 s
Maximum Inspiratory Time	0.3 to 3 s, Off
Backup Rate (PSV)	4 to 40 bpm
Target Volume	100 to 2500 ml
Maximum Pressure	50 cmH_2O
Minimum Pressure	4 cmH_2O to 50 cmH_2O
Tidal Volume	100 to 2500 ml
Flow Pattern	Square, decelerating
CPAP	4 to 20 cmH_2O

Power Supplies	
Mains supply	100 to 240 V AC
External battery	24 V DC
Click-on battery	8 hours
Internal battery	4 hours

Main Alarms	
High Pressure, Low Pressure, High PEEP, Low PEEP, High Vt, Low Vt, High MV, Low MV, High Breath Rate, Low Breath Rate, Apnea, Disconnection, Rebreathing, High SpO_2, Low SpO_2, High $EtCO_2$, Low $EtCO_2$, High $InspCO_2$, High Pulse Rate, Low Pulse Rate, Low Last Power Source, High FiO_2, Low FiO_2	

Monitoring	
Displayed data	Ppeak, PEEP, Pmean, Leakage, MV, Vt, % in TgV, Total Rate, Spont Rate, % Spont, SpO_2, Pulse Rate, I:E, Inspiratory Time, Rise Time, $EtCO_2$, $InspCO_2$, FiO_2
Waveforms	Pressure, Flow, Volume
Trends over 1, 6, 24 and 48h	Ppeak, PEEP, Total Rate, Spont Rate, Vt, Leakage, SpO_2, $EtCO_2$, FiO_2

Dimensions	
W x H x D	13,5 × 4,9 × 10,4 inches without click-on battery (13,5 × 4,9 × 11,2 inches with click-on battery)
Weight	11 lbs without click-on battery (13,2 lbs with click-on battery)
Noise level (at 10 cmH_2O constant pressure)	Less than 30 dB(A)

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