BREAS



Vivo 45LS

by Breas

Comfortable. Compact. Connected.

We're reintroducing the Vivo 45LS with thoughtfully designed enhancements that streamline setup while prioritizing comfort and support for both adult and pediatric patients. These improvements provide simplicity of setup, smarter alarms, and more comfortable therapy for patients. We've taken your feedback to help ensure the Vivo 45LS provides a tailored solution to meet individual patient needs.

Portable

- Options for a wide range of conditions and patients from 11 lb
- At 5.3 lb, arguably the lightest most compact vent
- Integrated humidifier with heated wire circuit
- Up to 24+ hour* battery life

Adaptable

- Comprehensive set of modes includes Auto-EPAP, HFNT
- AHI calculation
- Integrated polygraphy tracing: SpO_2, FiO_2, CO_2, $EtCO_2$
- Pressure and volume modes
- Both passive and active circuits

Enhanced

Firmware 5.2.0 upgrade highlights:

- Simplified setup
- Improved disconnection alarm behavior
- Expanded triggering options

Be more™

Breas Vivo 45LS Technical Specifications

Settings / Performance

Ventilation Modes	PSV, PCV(A): with or without Target Volume and/or AE CPAP, VCV(A), VCV-MPV, VCV-SIMV, PCV-SIMV, PCV-MPV, HFNT
Patient Modes	Adult / Pediatric (>11 lb)
Device Modes	Home / Clinical
Settings Profiles	3 profiles
Inspiratory Pressure	4–50 cmH_2O
PEEP	Off, 2–20 cmH_2O
Breath Rate	Adults: 4–40 bpm, Pediatrics: 6–60 bpm
Inspiratory Time	0.3–5 s
Rise Time	1–9 (PSV, PCV) 50–90 %, Off (VCV)
Inspiratory Trigger	eSync 1–9, Flow 0.2-9.0 l/min
Expiratory Trigger	10–90%
Min Inspiratory Time	Off, 0.3–3 s
Max Inspiratory Time	Off, 0.3–5 s
Target Volume	Adults: 300–2000 ml, Pediatrics: 50–500 ml
Auto-EPAP	On / Off, Min / Max EPAP: 2–20 cmH_2O,

Monitoring

Displayed Data	Ppeak, PEEP, Pmean, Leakage, MV, Vt, FiO_2, % in TgV, Total Rate, Spont Rate, % Spont, SpO_2, Pulse, Rate, I:E, Inspiratory Time, Rise Time, $EtCO_2$, $PtcCO_2$, AHI, $InspCO_2$
Waveforms	Pressure, Flow, Volume, $EtCO_2$
Trends 1, 6, 24, 48 h, 10 d	Ppeak, PEEP, Total Rate, Spont Rate, Vt, Leakage, SpO_2, $EtCO_2$, $PtcCO_2$

Power Supplies

Mains Supply	100–240 V AC
External DC	19 V ± 6 V
Click-in Battery	5.5 hours
Internal Battery	2.0 hours
Xpac	18 hours

Alarms

Alarms Include	High and Low: Pressure, PEEP, Breath Rate, Vt, MV, FiO_2, SpO_2, CO_2, Pulse rate Apnea, Disconnection, Obstruction, Rebreathing, Low last power source

Dimensions

W x H x D	8.50” x 6.26” x 5.98”
Weight	5.3 lb
Noise Level	Less than 36 dB(A)

Connectivity and Software

Built-in Connectivity	Ethernet, USB
Software	PC Software, EveryWare
Plug-and-Play Accessories	SpO_2, FiO_2, $PtcCO_2$, $EtCO_2$, Remote Alarm, Remote Start / Stop, Nurse Call

Other

Humidification	Integrable water chamber
Circuits	Disposable leakage circuits with / without heated wires, Disposable exhalation valve circuits, Disposable MPV circuits
Firmware	Devices shipped after 11 July, 2026 contain firmware 5.2.0. Previous device versions may be updated. Contact your representative or Breas Customer Excellence for instructions.



*Based on combined usage times of internal, click-in, and Xpac external batteries.

Intended use: The Vivo 45LS ventilator is intended to provide continuous or intermittent ventilatory support for patients weighing over 5 kg (11 lbs) who require mechanical ventilation. The Vivo 45LS with the SpO_2 is intended to measure functional oxygen saturation of arterial hemoglobin (%SpO_2) and pulse rate. The Vivo 45LS 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. The Vivo 45LS is not intended to be used as an emergency transport or critical care ventilator.

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