Vivo 45LS

by Breas

Comfortable. Compact. Connected.

To treat a diverse range of respiratory conditions, a ventilator must provide exceptional clinical versatility and performance. Equally vital is its design, taking into account the patient's daily routines, activities, and every day environment. This led to the creation of the Vivo 45LS, a life support ventilator designed for adult and pediatric patients, which has been meticulously engineered to boost independence and mobility. Featuring both passive and active exhalation valve circuit options, the Vivo 45LS provides a tailored solution to meet individual patient needs.

Designed for everyday life

- Small, neat and user friendly
- Integrated humidifier with heatedwire circuit
- 2.5 h internal + 6.5 h click-in battery
- Optional extended-life backup battery

Adaptable

- Options for a wide range of conditions and patients from 5 kg
- Integrated polygraphy tracing: SpO_2, FiO_2, CO_2, respiratory effort belts
- Pressure and volume modes
- Both passive and active circuits

Connected

Making connected care more insightful

- EveryWare – secure cloud-based remote connectivity solution
- PC Software – desktop-based with Live Viewer

Be more™

Breas Vivo 45LS technical specifications

Settings / Performance

Ventilation Modes	PSV, PCV(A), CPAP, VCV(A), VCV-MPV, VCV-SIMV, PCV-SIMV, PCV-MPV, HFNT
Patient Modes	Adult/Paediatric (>5 kg)
Device Modes	Home/Clinical
Settings Profiles	Three profiles
Inspiratory Pressure	4–50 cmH_2O
PEEP	Off, 2–20 cmH_2O
Breath Rate	Adults: 4–40 bpm, Paediatrics: 6–60 bpm
Inspiratory Time	0.3–5 s
Rise Time	1–9 (PSV, PCV) 50–90 %, Off (VCV)
Inspiratory Trigger	eSync 1–9 Off 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, Paediatrics: 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
Waveforms	Pressure, Flow, Volume, $EtCO_2$, Effort Belts
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	19V±6V
Click-in Battery	6.5 hours
Internal Battery	2.5 hours
Xpac	18 hours

Alarms

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, High FiO_2, Low FiO_2, High SpO_2, Low SpO_2, High CO_2, Low CO_2, High $InspCO_2$, High Pulse Rate, Low Pulse Rate, Low Last Power Source, Obstruction, Rebreathing

Dimensions

W x H x D	216 x 159 x 152 mm
Weight	2.4 kg
Noise Level	Less than 30 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, Effort Belts, Nurse Call

Other

Humidification	Integrable water chamber
Circuits	Disposable leakage circuits with / without heated wires, Disposable exhalation valve circuits, Disposable MPV circuits

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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Issued: October 2026. COR-MAR-MAR-008268-Rev1.

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