Nippy 4+ – 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 Nippy 4+, a life support ventilator designed for adult and paediatric patients (5 kg and above), which has been meticulously engineered to boost independence and mobility. Featuring both passive and active exhalation valve circuit options, the Nippy 4+ provides a tailored solution to meet individual patient needs.

DESIGNED FOR EVERYDAY LIFE

- Small, neat and user friendly
- Integrated humidifier with heated wire circuit
- 2.5 h internal + 6.5 h click-in battery for use on the move
- 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 circuits and circuits with active exhalation valve

CONNECTED

Making connected care more insightful

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

Check out the tutorial videos for Nippy 4+

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Breas Nippy 4+ Technical Specifications

Settings / Performance	
Ventilation Modes	PSV, PSV(TgV), PSV–AE, PSV(TgV+AE), PCV, PCV(TgV), PCV–AE, PCV(TgV+AE), PCV–SIMV, PCV–MPV, VCV–MPV, VCV–SIMV, VCV, CPAP
Patient Modes:	Adult/Paediatric (>5 kg)
Device Modes	Home/Clinical
Settings Profiles	Three profiles
IPAP	4–50 cm H_2O
EPAP	2–20 cm H_2O
Breath Rate/Back-up Rate	Adults: 4–50 bpm, Paediatrics: 6–60 bpm
Inspiratory Time	0.3–5 s
Backup Inspiratory Time	0.3–5 s (PSV)
Rise Time	1–9 (PSV, PCV), 50–90 %, Off (VCV)
Inspiratory Trigger	1–9 (PSV, PCV, VCV), Off (PCV, VCV)
Expiratory Trigger	1–9 (PSV, PSV(TgV) and SIMV Modes)
Minimum Inspiratory Time	Off, 0.3–3 s
Maximum Inspiratory Time	Off, 0.3–5 s
Target Volume	Adults: 100–2000 ml, Paediatrics 50–500ml
Auto-EPAP	On/Off, Min/Max EPAP: 2–20 cmH_2O, PS: 2–50 cmH_2O –Max EPAP, EPAP Step: 0.5–2 cmH_2O, Relax Time: 120–720 sec/Off, Min PS/Max PS: 2–50 cmH_2O –Max EPAP, Pressure Limit: Max EPAP +2 cmH_2O–50 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 over 1, 6, 24, 48 h and 10 days on device screen	Ppeak, EPAP, Total Rate, Spont Rate, Vt, Leakage, SpO_2, $EtCO_2$, $PtcCO_2$

Power Supplies	
Mains Supply	100–240 V AC
External DC	12–24 V
Click-in Battery	6.5 hours
Internal Battery	2.5 hours
Xpac Extended-life Backup Battery (optional)	18 hours (IPAP 20 cm/EPAP 8 cm, Rate 15 bpm)

Alarms	
Alarms	High Flow, Low Flow, High Pressure, Low Pressure, High EPAP, Low EPAP, High Vte, Low Vte, High MV, Low MV, High Breath Rate, Low Breath Rate, Apnoea, Disconnection, High FiO_2, Low FiO_2, High SpO_2, Low SpO_2, High Pulse Rate, Low Pulse Rate, Low Last Power Source, Obstruction, Rebreathing, High and Low $EtCO_2$/$PtcCO_2$, High Inspired $EtCO_2$

Dimensions	
W x H x D	216 x 159 x 152 mm
Weight	2.4 kg
Noise Level (at 10 cmH_2O constant pressure)	Less than 28 dB(A)

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

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

Intended use:
The Nippy 4+ ventilator is intended to provide continuous or intermittent ventilatory support for patients weighing over 5 kg who require mechanical ventilation. The Nippy 4+ with the SpO_2 is intended to measure functional oxygen saturation of arterial hemoglobin (%SpO_2) and pulse rate. The Nippy 4+ 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 Nippy 4+ is not intended to be used as an emergency transport or critical care ventilator.