



The CANTA V10-W-NS 10-Litre Oxygen Concentrator (VM-OXYCV10WNS) delivers 0.5–10 L/min of oxygen at $93\pm3\%$ purity using PSA molecular sieve technology, with an outlet pressure of 0.04–0.08 MPa and a noise level of ≤ 55 dB. It features an LCD display, power failure, low purity and overheat alarms, and a water- and dust-proof molecular sieve tank. Measuring 356×400×650mm and weighing 31kg, it is suited to clinical and high-flow oxygen therapy applications. CE certified.

High-Flow PSA Oxygen Delivery for Clinical and High-Demand Applications

The CANTA V10-W-NS is a 10-litre high-flow oxygen concentrator designed for clinical settings where flow rates above the 5 L/min ceiling of standard home-type concentrators are required. ICUs, high-care units, emergency departments, post-operative recovery bays, and respiratory therapy services frequently prescribe 6–10 L/min oxygen flow rates for the management of severe hypoxaemia, respiratory failure, and high-acuity step-down care — and the V10-W-NS delivers these flow rates continuously across its full 0.5–10 L/min range at a therapeutic purity of $93\pm3\%$. The concentrator uses Pressure Swing Adsorption (PSA) molecular sieve technology to extract oxygen directly from ambient air, producing a continuous mains-powered oxygen supply that eliminates dependence on cylinder procurement, cylinder storage, and exchange logistics.

Safety Monitoring, Construction, and Design Features

The V10-W-NS is equipped with an LCD display showing operating parameters and running hours for maintenance scheduling, and an active alarm system covering power failure, low oxygen purity, and overheating — the three primary safety events associated with continuous-flow concentrator operation. The molecular sieve tank is water- and dust-proof, protecting the sieve material from the contamination that degrades purity output over time. A top tray provides integrated storage for accessories, and the large internal chassis design facilitates faster internal air cooling during continuous operation — supporting the sustained duty cycle required in clinical environments. Operating noise is rated at ≤ 55 dB. Optional additions include a flow splitter (supporting up to five simultaneous outlets), a nebulizer function, and an SpO₂ sensor.

Applications and Cylinder-Free Operation

The V10-W-NS is appropriate for South African ICUs, high-care wards, respiratory therapy centres, rehabilitation units, and any clinical setting requiring a reliable high-flow oxygen source that removes cylinder supply chain dependency. As a mains-powered concentrator, it is particularly suited to fixed-station clinical deployment where continuous oxygen availability is critical and cylinder management is operationally burdensome. CE certified. Available in South Africa from Vital Medical.

TECHNICAL SPECIFICATIONS TABLE

Specification	Detail
Brand	CANTA
Model	V10-W-NS
SKU	VM-OXYCV10WNS
Type	10-litre high-flow oxygen concentrator
Flow Rate	0.5-10 L/min
Oxygen Purity	93±3%
Technology	PSA (Pressure Swing Adsorption) molecular sieve
Outlet Pressure	0.04-0.08 MPa
Noise Level	≤55 dB
Display	LCD
Alarms	Power failure, low purity, overheat
Nebulization	Not included (standard version)
Dimensions	356×400×650mm
Net Weight	31kg
Power	Mains AC
Certification	CE
Optional	Flow splitter (5-way), nebulizer function, SpO2 sensor

SKU: VM-OXYCV10WNS