

The HG3W-Purity is a 3-litre oxygen concentrator with low-purity alarm (<82%), LCD display, power failure alarm, overheat alarm, timing function. Flow rate 0.5-3L/min, concentration 93-95%, outlet pressure 0.05-0.08MPa, 350W, 40dB, 400-365-650mm, 27kg. Certified CE, ISO13485, FDA. Available from Vital Medical South Africa.

HG3W-Purity 3-Litre Oxygen Concentrator with Low Purity Alarm

The HG3W-Purity is a clinical and home-use oxygen concentrator providing flow rates from 0.5 to 3 litres per minute at an oxygen concentration of 93-95% – the standard therapeutic oxygen purity range specified in national and international home oxygen therapy guidelines. Oxygen concentrators produce medical-grade oxygen from ambient air using pressure swing adsorption (PSA) technology with molecular sieve material, eliminating the need for oxygen cylinder procurement, cylinder exchange logistics and the safety risks associated with high-pressure oxygen cylinder storage in clinical and home environments. The HG3W-Purity's 0.5-3L/min flow range covers the standard prescribed flow rates for mild to moderate hypoxaemia in COPD, interstitial lung disease, heart failure and other chronic respiratory conditions managed with long-term oxygen therapy.

Low Purity Alarm and Comprehensive Safety Monitoring

The HG3W-Purity's low purity alarm is a clinically significant safety feature: it activates when oxygen concentration falls below 82% – the minimum therapeutic purity threshold – alerting the patient or clinician that the concentrator output no longer meets the therapeutic specification. Molecular sieve degradation, blocked air inlet filters, or compressor performance decline can reduce output purity over time, and the low purity alarm ensures that sub-therapeutic oxygen delivery is detected and corrected rather than continuing undetected. Additional alarms include power failure alarm (immediately alerts when mains power is lost), overheat alarm (protects the compressor and molecular sieve from thermal damage), and a timing function for working hours control and maintenance scheduling.

South African Home and Clinical Oxygen Therapy Supply

The HG3W-Purity's large LCD display shows accumulated working hours and current working hours ? important for molecular sieve maintenance scheduling, which is typically performed at fixed running-hour intervals. At 27kg and 400?365?650mm, the HG3W-Purity is suitable for fixed placement in a bedroom, lounge or clinical bay. International certification to CE, ISO13485 and FDA standards confirms compliance with the regulatory requirements of major international medical device markets. Vital Medical supplies the HG3W-Purity to South African home oxygen therapy patients, respiratory clinics, ICUs, step-down units and emergency departments requiring a reliable, alarmed oxygen concentrator.

Technical Specifications

Specification	Detail
Model	HG3W-Purity
Type	3-Litre Oxygen Concentrator with Low Purity Alarm
Flow Rate	0.5?3 L/min
Oxygen Concentration	93?3%
Outlet Pressure	0.05?0.08 MPa
Power Consumption	350W
Operating Noise	?40dB
Dimensions	L400?W365?H650mm
Weight	27kg
Display	LCD (accumulated + current working hours)
Alarms	Low purity alarm (<82%), power failure alarm, overheat alarm
Functions	Timing function, working hours control
Quality Standard	CE; ISO13485; FDA; Free Sale Certificate

SKU: VM-OC3L