



The Contec OC5B 5-Litre Oxygen Concentrator (VM-OCC5B) uses PSA molecular sieve technology to deliver $93\pm3\%$ oxygen purity at 0.5–5L/min, with integrated nebulization function ($>0.15\text{ml/min}$), SpO₂ and pulse rate monitoring, and a comprehensive four-alarm system (power failure, high/low pressure, low flowrate, overheat). Operating at $\leq 55\text{dB(A)}$, 400VA on AC220V $\pm 10\%$ / 50Hz, weighing 21kg with truckle wheels. Dimensions: 508×260×530mm

Oxygen Concentration with Integrated Nebulization Function

The Contec OC5B is a 5-litre oxygen concentrator that uses PSA (pressure swing adsorption) technology with a high-quality molecular sieve to concentrate medical-grade oxygen directly from ambient air at $93\pm3\%$ purity across the full 0.5–5L/min flow range. This meets the therapeutic oxygen concentration specifications required for long-term oxygen therapy in COPD, interstitial lung disease, heart failure, and other chronic hypoxaemic conditions where continuous supplemental oxygen is clinically indicated. The integrated nebulization function uses the concentrator's own oxygen output to drive medication atomisation at $>0.15\text{ml/min}$ — enabling simultaneous bronchodilator or mucolytic nebulisation alongside continuous oxygen therapy. This is a clinically

significant advantage in COPD exacerbations, asthma attacks, and other acute respiratory events where both oxygen supplementation and nebulised medication are required concurrently, eliminating the need for a separate nebuliser unit.

SpO2 and Pulse Rate Monitoring with Comprehensive Alarm System

The OC5B's built-in SpO2 probe connection enables continuous oxygen saturation monitoring across the 0-100% range with $\pm 2\%$ accuracy (at 70-100% SpO2), and pulse rate monitoring from 30-250bpm with $\pm 2\text{bpm}$ or $\pm 2\%$ accuracy. This real-time physiological feedback allows clinicians and caregivers to titrate oxygen flow rate to the patient's target SpO2 range without requiring a separate pulse oximeter, providing a comprehensive respiratory monitoring and therapy platform in a single device. Four independent alarms — power failure, high pressure, low pressure, and low flowrate — and an overheat alarm provide continuous safety monitoring throughout therapy, alerting caregivers and patients to any condition that may compromise oxygen delivery.

Clinical and Home Respiratory Therapy in South Africa

Operating at $\leq 55\text{dB(A)}$, the OC5B is quiet enough for domestic bedroom use during overnight oxygen therapy — a primary clinical requirement for home-based long-term oxygen therapy patients. Trundle wheels enable repositioning between rooms. The $\text{AC}220\text{V} \pm 10\% / 50\text{Hz} \pm 1\text{Hz}$ power specification is fully compatible with South African mains supply, and IP21 protection provides splash resistance for use in clinical and home environments. Supplied with humidifier bottle, nasal cannula, SpO2 probe, and atomisation accessories. Available in South Africa from Vital Medical, the OC5B is suited to hospitals, respiratory clinics, step-down facilities, and home oxygen therapy patients requiring a feature-complete, safe, and clinically capable 5-litre oxygen concentrator with nebulisation and SpO2 monitoring.

TECHNICAL SPECIFICATIONS TABLE

Specification	Detail
Brand	Contec Medical Systems
Model	OC5B
SKU	VM-OCC5B
Type	5-Litre Oxygen Concentrator with Nebulization
Technology	PSA molecular sieve
Flow Rate	0.5–5 L/min
Oxygen Concentration	93% ± 3% at 0.5–5 L/min
Outlet Pressure	20–50 kPa
Nebulization Rate	>0.15 ml/min
SpO2 Range	0–100%; accuracy ±2% (70–100%)
Pulse Rate	30–250 bpm; accuracy ±2 bpm or ±2%
Alarms	Power failure, high/low pressure, low flowrate, overheat
Power Consumption	400VA
Electrical Input	AC220V ±10%, 50Hz ±1Hz
Operating Noise	≤55 dB(A)
IP Rating	IP21
Dimensions	508(L) × 260(W) × 530(H) mm
Weight	21kg
Mobility	Truckle wheels
Accessories	Humidifier bottle, nasal cannula, SpO2 probe, atomisation accessories
Certification	CE

SKU: VM-OCC5B