



Konsung KSN-5 Elite 5L oxygen concentrator (VM-OC5L) — 93±3% purity, 14.5kg, nebulizer, purity alarm, France sieve. Order from Vital Medical South Africa.

**France-Imported Molecular Sieve and Lightweight PSA Oxygen Concentration**

The Konsung KSN-5 Elite (VM-OC5L) is a 5-litre oxygen concentrator built around advanced PSA (pressure swing adsorption) technology incorporating a France-imported molecular sieve — a material quality specification that directly affects adsorption efficiency, oxygen purity consistency, and sieve longevity over the unit's service life. The concentrator delivers  $93\pm3\%$  oxygen purity across a flow range of 1–5L/min at an output pressure of 30–70kPa, meeting the medical oxygen purity specifications required for long-term oxygen therapy in COPD, chronic respiratory failure, heart failure-related hypoxaemia, and other conditions requiring continuous supplemental oxygen. At 14.5kg and 350×340×475mm, the KSN-5 Elite is notably compact and lighter than many comparable 5-litre concentrators, making it well-suited to home care environments where manageable weight and a small footprint are practical priorities alongside clinical performance.

### **Integrated Nebulizer and Comprehensive Seven-Function Alarm System**

The KSN-5 Elite is equipped with an integrated nebulizer function that uses the concentrator's oxygen output to atomise prescribed medication at  $\geq 0.2\text{mL/min}$  — enabling concurrent oxygen-driven bronchodilator or mucolytic nebulisation alongside continuous oxygen delivery. This eliminates the need for a separate nebuliser unit during respiratory therapy. The unit's alarm system covers seven conditions: power failure, high pressure, low pressure, overheat, overload (with 250V AC / 3A protector), error code indication on the display, and an oxygen purity alarm that alerts when delivered oxygen concentration falls below the therapeutic threshold. The inclusion of a dedicated oxygen purity alarm is a clinically significant safety feature, providing assurance that the molecular sieve is performing within specification during long-term continuous therapy, and alerting caregivers when purity drops to levels that may be inadequate for the patient's prescribed therapy.

### **Timing Function, Continuous Operation, and Clinical Classification**

The KSN-5 Elite includes a timing system and time-setting function, supporting prescribed session-based oxygen therapy where clinicians or home care protocols specify duration of oxygen delivery. The unit is rated for continuous operation, classifying it as appropriate for uninterrupted 24-hour use required in long-term oxygen therapy prescriptions. As a Class II, BF-type medical device, it meets the electrical safety classification standards for equipment intended to be in contact with or in close proximity to patients. Running at 350W on AC220V/50Hz — compatible with South African mains supply — the KSN-5 Elite is suited to home oxygen therapy patients, frail care facilities, and outpatient respiratory clinics requiring a lightweight, clinically equipped 5-litre concentrator with

nebulizer capability and comprehensive alarm monitoring. Available in South Africa from Vital Medical.

## TECHNICAL SPECIFICATIONS TABLE

| Specification                    | Detail                                                                                |
|----------------------------------|---------------------------------------------------------------------------------------|
| Brand                            | Konsung                                                                               |
| Model                            | KSN-5 Elite                                                                           |
| SKU                              | VM-OC5L                                                                               |
| Type                             | 5-Litre Oxygen Concentrator with Nebulizer & Purity Alarm                             |
| Technology                       | PSA molecular sieve (France-imported)                                                 |
| Flow Range                       | 1–5 L/min                                                                             |
| Oxygen Purity                    | 93% ± 3%                                                                              |
| Output Pressure                  | 30–70 kPa                                                                             |
| Outlet Pressure                  | 0.04–0.08 MPa (40–80 kPa)                                                             |
| Atomization Outlet Pressure      | 60–250 kPa                                                                            |
| Nebulizer Atomization Rate       | ≥0.2 mL/min                                                                           |
| Safety Valve Pressure            | 15–40 kPa                                                                             |
| Alarms                           | Power failure, high/low pressure, overheat, overload, error code, oxygen purity alarm |
| Timing Function                  | Yes — timing system with time setting                                                 |
| Operation Mode                   | Continuous                                                                            |
| Power                            | 350W                                                                                  |
| Input Voltage                    | AC220V / 50Hz                                                                         |
| Overload Protector               | 250V AC, 3A                                                                           |
| Noise                            | 45 dB                                                                                 |
| Weight                           | 14.5 kg                                                                               |
| Dimensions                       | 350(L) × 340(W) × 475(H) mm                                                           |
| Electrical Safety Classification | Class II, BF-type                                                                     |

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