



The Biobase BKM-P18I Portable Autoclave (VM-ACLBKMP18I) is an 18-litre steam steriliser with dual-fuel capability, operating on both electric and gas power sources to support sterilisation in facilities

where consistent mains electricity is unavailable. Sterilisation cycles run at 121°C and 126°C at a working pressure of 0.142 MPa, with a 2 kW power rating. CE-certified, the VM-ACLBKMP18I is suited to general surgery, dentistry, laboratory use, and field or remote clinical deployment.

### **Dual-Fuel Portable Autoclave for Remote and Rural Clinical Use**

The Biobase BKM-P18I Portable Autoclave (VM-ACLBKMP18I) is an 18-litre steam sterilisation unit built for healthcare facilities and field environments where conventional benchtop autoclave infrastructure cannot be installed or reliably powered. Its dual-fuel design allows operation from a standard electrical supply or a gas source, making it a practical sterilisation solution for rural primary care clinics, mobile medical units, community outreach programmes, and remote sites where mains power is intermittent. This combination of portability and fuel flexibility positions the BKM-P18I as one of the few autoclaves suited to both clinic-based and field deployment without modification, giving healthcare providers a validated sterilisation option regardless of the infrastructure available at the point of care.

### **Sterilisation Performance and Technical Parameters**

The BKM-P18I operates at validated sterilisation temperatures of 121°C and 126°C, sufficient to eliminate bacteria, viruses, fungal spores, and other pathogens from reusable solid instruments including surgical tools, dental instruments, and laboratory equipment. Working pressure is 0.142 MPa, and the unit is rated at 2 kW — a power level that balances effective sterilisation cycle performance with manageable energy draw for generator or gas-based power supply in off-grid settings. The 18-litre chamber capacity accommodates standard instrument trays used in general surgery, wound care, and dental procedures, providing adequate throughput for small-to-medium volume clinical workloads. The unit holds CE certification, confirming conformance with applicable European safety and performance standards.

### **South African Healthcare Applications and Availability**

The VM-ACLBKMP18I addresses a specific and persistent challenge in South African healthcare:

reliable instrument sterilisation at primary care level, in community health centres, district hospitals, and outreach programmes where fixed sterilisation equipment is absent and load-shedding interrupts electrical supply. The dual-fuel capability directly mitigates the impact of power outages on infection control compliance, allowing sterilisation cycles to continue uninterrupted when grid power is unavailable. Available in South Africa from Vital Medical, the BKM-P18I offers district-level and rural healthcare facilities access to a CE-certified, field-proven portable autoclave with local procurement support.

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## Technical Specifications

| Specification       | Value                                     |
|---------------------|-------------------------------------------|
| Brand               | Biobase                                   |
| Model               | BKM-P18I                                  |
| VM SKU              | VM-ACLBKMP18I                             |
| Type                | Portable autoclave                        |
| Chamber capacity    | 18 litres                                 |
| Working temperature | 121°C / 126°C                             |
| Working pressure    | 0.142 MPa                                 |
| Power rating        | 2 kW                                      |
| Fuel source         | Dual — electric / gas                     |
| Applications        | Surgery, dentistry, laboratory, field use |
| Certification       | CE                                        |

**SKU:** VM-ACLBKMP18I