

BENCHTOP PORTABLE ANESTHESIA MACHINE

PCB-PA50

Mechanical operation · 6-tube flow meter · O₂/N₂O linkage safety



Compact **benchtop anesthesia machine** with mechanical operation — no electronics required. 6-tube flow meter with O₂/N₂O safety linkage, Selectatec vaporizer mount, CO₂ circle absorber.

Anesthesiology

Benchtop

Mechanical

No Electronics

6 tubes

FLOW METER

1,000 ml

CO₂ ABSORBER

≥25%

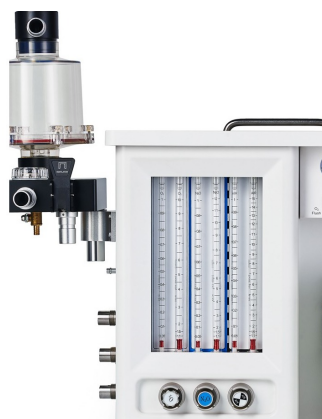
O₂ MINIMUM

21 kg

WEIGHT

The PCB-PA50 brings essential anesthesia functions to a compact benchtop platform. Fully mechanical — no electronics or battery required, suitable for any facility. Three-gas input (O₂, N₂O, Air) with safety interlocks: O₂/N₂O linkage guarantees O₂ ≥25%, and N₂O is automatically cut off if O₂ supply is lost.

— Flow meter & controls



PRECISION GAS MANAGEMENT

6-tube high-precision flow meter

- O₂: 2 tubes, 0–1 L/min and 1.1–10 L/min
- N₂O: 2 tubes, 0–1 L/min and 1.1–12 L/min
- Air: 2 tubes, 0–1 L/min and 1.1–15 L/min
- Precision class 2.5 (at 20°C, 101.3 kPa)

— Key features

Safety interlocks

O₂/N₂O linkage guarantees O₂ ≥25%. N₂O cuts off automatically when O₂ supply is lost.

Selectatec vaporizer

Single Selectatec mount for Isoflurane or Sevoflurane. Easy vaporizer change.

CO₂ circle absorber

1,000 ml absorber chamber.
System leakage ≤125 L/min at <3 kPa.



— Specifications

Model	PA50	Gas source	O ₂ · N ₂ O · Air
Inlet pressure	280–600 kPa	Output regulator	280–300 kPa
Safety release	≤600 kPa	Flow meter	6 tubes, class 2.5
O ₂ /N ₂ O linkage	O ₂ ≥25% guaranteed	N ₂ O cutoff	Auto when O ₂ lost
O ₂ flush	35–75 L/min	Vaporizer mount	Selectatec (single)
CO ₂ absorber	1,000 ml chamber	APL valve	0.19–6 kPa
Dimensions (no absorber)	40 × 42 × 20 cm	Dimensions (with absorber)	68 × 66 × 23 cm
Weight	21–24 kg		

Manufactured under International Quality Standards. Designed and manufactured following international standards for medical device quality management. Every PCB-PA50 unit is tested before shipment.

CE

ISO 9001

ISO 13485

PCB Medical · Kentucky (USA)

10342 Bluegrass Pkwy
Louisville, KY 40299

www.pcbmedical.net

PCB Medical · China

2103 Citic Tower
1500 Xiangjiang North Road
Changsha, China