

**RENDER**

*Safe, Reliable, Valid*

ISO 9001:2008  
ISO 13485:2003  
**CE**

- Anaesthesia respiratory system utility Patent no. ZL 2010 2 0301105.8
- Anaesthesia vaporizer appearance design Patent no. ZL 2012 3 0450738.X



## **SD-M2000C(+)** **Anaesthesia Workstation**

- Built in 5.5" anaesthesia ventilator, bain circuit interface
- High end precise vaporizer (Volume > 280ml, Patent)
- New compact CO<sub>2</sub> absorber (autoclavable, Patent)
- Battery back up for all system over 60 mins
- High brightness LED lighting system
- Optional: Anaesthesia gas scavenging system
- Optional: Electronic anaesthesia vaporizer (Patent)
- Optional: Yoke system, Electronic tidal volume (Innovation)
- Optional: Continuous FIO<sub>2</sub> monitoring, EtCO<sub>2</sub> monitoring function
- Optional: Built-in air compressor Or Air / O<sub>2</sub> inter-link system (Innovation)

*The world's **ONLY** manufacturer of electronic anaesthesia vaporizer*

Utility model patent no.: ZL 2012 2 0483524.7  
Computer software copyright registration certificate no.: 2013SR026464

## Technical Specification

### Anaesthesia main unit:

- High resolution 5.5" LCD screen
- Close, semi-close, semi-open system
- Application: Adult, Pediatric
- Low gas alarming: Low O<sub>2</sub> gas pressure, it will gives alarming more than 7 seconds.
- High pressure Limitation: Whenever airway pressure exceed the pre-set High pressure, ventilator offers protection automatically, to assure airway pressure can not increase anymore which supplies safety to patient.
- Low pressure protection: Once O<sub>2</sub> pressure less than 0.1MPa, N<sub>2</sub>O gas supply was stopped automatically.
- Power failure alarming, power extendable function
- O<sub>2</sub> flush: 25~75L/min
- Gas pressure: O<sub>2</sub>: 0.3~0.5 MPa  
N<sub>2</sub>O: 0.3~0.5 MPa
- Power: 220V±10%, 50Hz±1%; backup UPS battery

### Flow meter:

- O<sub>2</sub>/N<sub>2</sub>O Or O<sub>2</sub>/Air (Optional) – four tubes (0.05 ~ 1 L/min, 1 ~ 10 L/min)
- O<sub>2</sub>/N<sub>2</sub>O inter-lock system, to keep O<sub>2</sub> concentration no less than 25%

### Anaesthesia Ventilator:

- Adult / Pediatric bellow 1 set each;
- Pneumatic driven electric control
- Monitor Parameters: Tidal volume, Respiratory frequency, I:E rate, Peak airway pressure, airway pressure wave(P-T), Optional Minute volume;
- Working mode: Manual, Auto (IPPV、SIGH、SIMV/F/2、SIPPV、Optional PEEP、EtCO<sub>2</sub>)
- Tidal volume: 0, 20~1500 mL
- Respiratory frequency: 4~60 bpm
- I: E: 2: 1 ~ 1: 5 (adjustable)
- Synchronizer trigger Pressure: - 3 ~ 0 KPa
- High pressure limitation: 2 ~ 6 KPa
- Low pressure limitation: 0.6 ~ 2 KPa

### Respiratory Circuit:

- Consolidated CO<sub>2</sub> absorber with own patent (Autoclavable).

### ZF-3000 High end precise vaporizer:

- One High end precise vaporizer (Enflurane, Halothane, Isoflurane, Sevoflurane)
- Adjustable range: 0.5~5%VOL
- Automatic compensation function – flow, pressure, temperature
- Self-lock function
- Volume: >280 ml (Optional electronic vaporizer)



High brightness LED lighting system \*  
System alarm indication function \*  
High resolution 5.5" LCD screen \*  
4 (2/each) Flowmeters for O<sub>2</sub>, N<sub>2</sub>O \*



Consolidated CO<sub>2</sub> absorber (Patent) \*



High end precise vaporizers (Patent) \*

### Tianjin Render Health Sci-Tech Development Co., Ltd.

Add.: Room B-301, 4th Building, NO. 15 Rongyuan Road, Huayuan Industry Zone, Tianjin, P.R.China  
Tel.: +86 22 23857311 Fax: +86 22 23857311  
E-mail: Info@Render-health.com Http://www.Render.cc  
All rights reserved. Features and specifications are subject to change without prior notice.