

Vaporizers & Anesthesia Machines

Advantages

- can be used in either DRAW-OVER (with Air) and plenum modes (OUT of circle)
- delivered concentration is virtually independent of:
 - » flow rate (0.2 ÷ 10 l/min)
 - » ambient temperature (15 ÷ 35 °C) and atmosphere pressure (70 ÷ 110 kPa)
 - » positions (vertical and overturned)
 - » anesthetic level (from 5 ml)
- minimal weight of "MINIVAP-20" (0.4 kg)
- maximum concentration (12 vol.%) and anesthetic output (0.12 x 20 L/min) of "MINIVAP-200"
- body material: Stainless Steel, Titan (for magnetic resonance tomography)

Fields of Application

- general & district hospitals
- pediatric
- stomatology
- veterinary
- remote areas
- ambulance & emergency situations
- military & disaster areas



Co-operation Proposal

A – Supply AM elements & units (mini- O₂ , CO₂ and anesthetic analyzers; mini- O₂ generators (oxygenates) and CO₂ absorbers (preferably membrane mode); mini-ventilators; Ambu elements & units, adapters etc.)

B – Penetration of our mini-vaporizers in a world anesthesia market (veterinary, urgent situations & remote areas, military, district hospitals)

C – patent licenses, manufactor cooperation (micro-bellows, testing and certification) and R&D novel mini-Vaporizers & Anesthesia Machines.

miniVAP Ltd. was established in March 2007 and is a scientific successor of „Laminar Technology“ Ltd. (2001-2003 Israel)

Scientific & Manufacture Venture Firm

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The first Anesthesia on the Earth:

*«And the LORD God caused a deep sleep to fall upon Adam, and he slept;
and He took one of his ribs, and closed up the flesh instead there of»*

GENESIS 2:21

general & district hospitals



Anesthesia Machine (AM) "Colibri" with reprocessable (left) and "Intersurgical" absorbers

pediatric



Adenotomy under sevoflurane anesthesia with AM "Colibri"; Filatov Children's Hospital, Moscow

stomatology



AM "Colibri" with Mapleson A breathing circle

veterinary anesthesia

Surgery, Magnetic-Resonance Tomography, Stomatology



AM with "MINIVAP-20" Vaporizer (Y.S. Dorodnih model, veterinary clinic «White canine», Moscow)

ambulance & emergency situations

military, disaster and remote areas

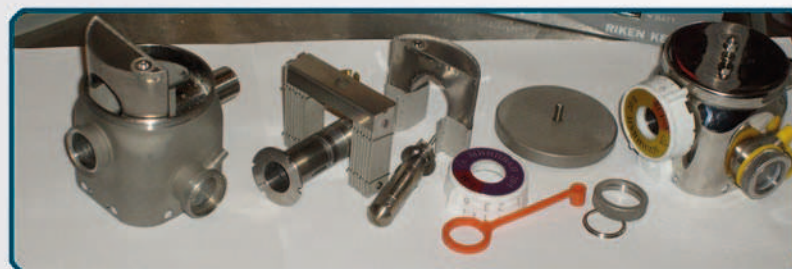


Vaporizer "MINIVAP-20" (DRAW-OVER ANESTHESIA)



Amby Bag + Vaporizer "MINIVAP-20"

MINIVAP 20

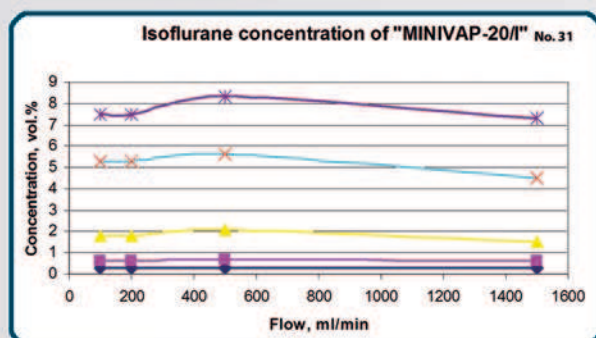


left - parts of "MINIVAP-20/I» vaporizer, right - "MINIVAP-20/S» assembly

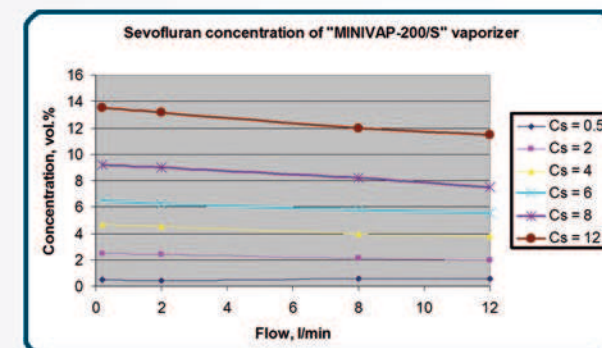
MINIVAP 200



Technical Data	"MINIVAP-20"	"MINIVAP-200"
Concentration Range of S or I or H or E , vol.%	0 – 6	0 – 12
Gas Flow Range, L/min	0.2 – 10	0.2 – 20
Resistance to flow 10 L/min, mm H ₂ O	~ 10 (20 for S)	~ 5
Temperature Range, °C	5 – 35	15 – 35
Atmosphere Pressure Range, kPa	70 – 110	70 – 110
Anesthetic volume, ml	50	150
Wick Anesthetic Volume, ml	3	3
Maximum Angle of Tilt during operation (1/2 anesthetic volume)	180°	90°
Weight, kg	0.4	1.5
Inlet/Outlet	15F/15M	22F/22M



Output concentration of "MINIVAP-20" vaporizer at the mini- and low carrier gas flow



References

1. Sidorov V.A., Tcypin L.E., Grebennicov V.A. Pediatric Inhalation Anesthesia. M., 2010 – 184 p.p.
2. Pediatric Surgery (Moscow). 2008; No 4: 51-56.

3. Clinical Anesthesiology (Moscow). 2007, 4, No 5, 66-71; 2006, 3, No 5: 46-49.
4. RU Patents No 2329069, 2372947, 2383362 and Patent Applications No 2010123403, 2011121371.

5. Methodical recommendations and the Summary. A network of veterinary clinics «White canine». 2011.
6. www.minivap.net; www.rusanesth.com; www.medcom.ru; www.feldsher.ru; www.mitk-m.ru

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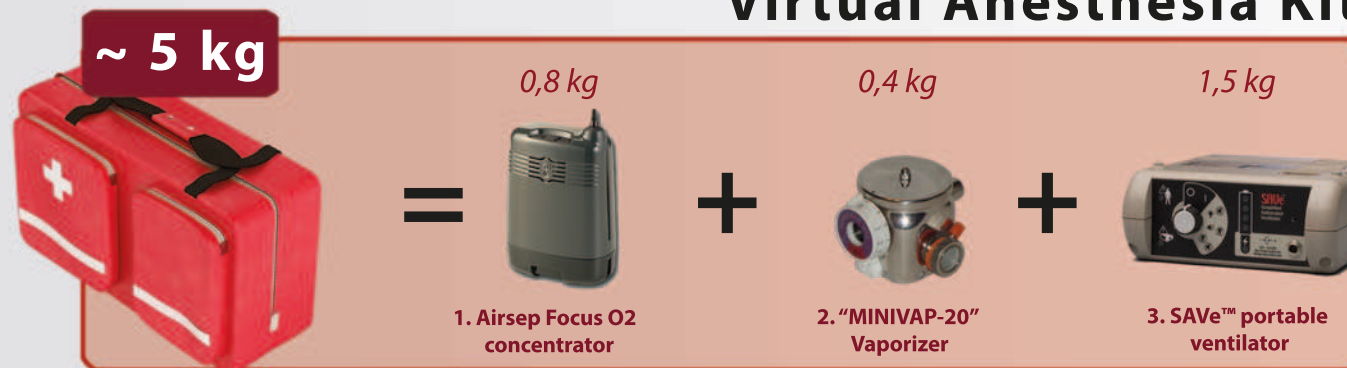
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What we are looking for



Virtual Anesthesia Kit



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