

Saturn Evo Standard

ANAESTHESIA CONFIGURATION

The Saturn Evo Standard is a unit dedicated to patient safety and user friendliness, based on trusted technology proved through years of experience.

The Saturn Evo is a complete workstation, equipped with various ventilation modes and special safety features to prevent barotrauma and volutrauma. The Saturn Evo is an easy companion to work with, a real user-friendly workstation and designed to grow with your needs.

Medec develops its equipment in close cooperation with Anesthetists in the most sophisticated hospitals to give you the unit you expect.

Some unique features:

- Lowest Work Of Breathing
- Direct fresh gas flow
- Automatic compensation of compliance, volume and small leaks
- Decelerating flow pattern
- Laminar flow measurement
- Vertical placed light weight patient valves
- Low cost of ownership
- Fastest saturation
- Complete configuration



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Manufacturer of high quality anaesthesia products

SATURN EVO STANDARD

- TECHNICAL DATA SHEET -

PNEUMATIC SPECIFICATIONS

Gas supply

Pipeline input : 2,5 to 8 bar supply required
Connections : NIST for O₂, N₂O and Air
Cylinder input : NIST or optional pin indexed

Cylinder holders

3 holders for 10 litre bottle

Rotameter (hypoxic guard system)

O₂ tube : 0 - 1 l/min
(double tube) 1 - 10 l/min
N₂O tube : 0 - 12 l/min
Air : 0 - 15 l/min
Optional : 5 or 6 tubes

Absorber features

Safety overpressure valve at 100 cmH₂O

Manometer gauges

Pipeline : O₂, N₂O & Air : 0 - 10 bar
Cylinder NIST : O₂, N₂O : 0 - 10 bar
Pin indexed : O₂ : 0 - 250 bar
N₂O : 0 - 100 bar

Oxygen flush

35 l/min (between 3 - 8 bar)

Vaporizers

Flow and temperature compensated

Vaporizer mounting

Selectatec system three station
Other systems available on request

Volume of CO₂ absorber

1.5 litres
autoclavable

Suction

Built-in, operating on vacuum
(Optional with injector system)

Front outlet

22mm OD - 15mm ID

Monitor fixations

Optional monitor arm

Shelf

1 monitor shelf
1 writing shelf

Drawer unit

Drawer unit incorporated
3 drawers

TECHNICAL SPECIFICATIONS VENTILATOR

Electronically controlled, pneumatically driven

Principle

Horizontal Bag-in-bottle system

Tidal volume (CMV)

10 - 1600 ml

I:E ratio

1:1, 1:1.5 ; 1:2, 1:3, 1:4, 1:5, 1:6, 2:1 to 4:1

Plateau time

0 - 50%
2 mbar to 58 mbar (PCV)

Oxygen alarm limit

Low: 18 - 99 % High: 19 - 99% or off

Measured parameters

Expired tidal volume, frequency
Minute volume, PIP, Plateau pressure,
PEEP, Mean pressure,
Patient pressure
User and Technical alarms

Ventilation modes

CMV, PCV, SIMV, Man./Spont.

Peak pressure (PCV)

5 - 70 mbar

Peep (electronic)

0 - 20 mbar

Upper pressure alarm limit

7 mbar to 99 mbar

Inspiratory Pause:

0% - 50%

Audible and visual Alarms

Low air/O₂/N₂O input pressure
apnea alarm, O₂ alarms
upper/lower limit alarm
leak or patient disconnection

Specifications subject to changes without prior notice

Anti-barotrauma system

Anti-Volutrauma system

Ventilation frequency

4 - 80 breaths per minute

Trigger

-2 to -20 mbar below PEEP

Lower pressure alarm limit

2 mbar to 94 mbar (CMV)

Battery backup

minimal 4 hours when fully charged

Other display readings

Silent indicator countdown
Time & Date
Mains and Battery indicator



Medec Benelux nv.

Lion d'Orweg 19 - B-9300 Aalst - Belgium - Phone: +32 (0)53 70 35 44 - Fax: +32 (0)53 70 35 33

E-mail: sales@medecbenelux.be - Website: www.medecbenelux.be