

Anesthesia Delivery System

Technical Specifications

PHYSICAL

Construction: Tabular, Rigid Thermostat moulded with large drawer for storage. Four large diameter anti-static castor wheels providing easy mobility. Front castors have brakes.

GAS INLETS

Cylinder yokes: Gas specific, pin indexed yokes with sliding steel clamping bar for O₂ and N₂O as per model below:
2XO₂, 2XN₂O
Pipeline inlets: O₂, N₂O and Air pipeline inlets

PRESSURE REDUCING REGULATORS

Highly efficient and reliable PRESSURE regulators (2 stage in PRIMA) for O₂ and N₂O. N₂O regulators are activated only if O₂ regulators are pressurized. N₂O regulators cut off on O₂ supply failure

PRESSURE GAUGE

* Pressure gauge cylinder: O₂ and N₂O: 0 to 250 kg/cm²

Pipeline systems: O₂/N₂O/AIR, diameter-indexed

O₂/N₂O piping station block with pressure gauge and 5m hose (Optional)

FLOWMETER

5 Tube long (230 mm) flowmeters calibrated in double scale for accuracy and clarity in reading.
3 gas: O₂, N₂O, Air (PRIMA).
Anti-hypoxia system: Minimum 25-30% O₂ at about 3kg/cm² (PRIMA)
Scale: O₂: 0.1-1 LPM, 1-10LPM
N₂O: 0.1-1 LPM, 1-10LPM
AIR: 0.1-10LPM

N₂O SAFETY CUT-OFF VALVE FOR OXYGEN SUPPLYING FAILURE

When the pressure of the supplying oxygen drops below about 2.5kg/cm², nitrous oxide will be automatically shut off to protect a patient from the danger of hypo-oxygenation

OXYGEN FLUSH VALVE

Self-returning push Button
Flow: 35-75 LPM at 4 kg/cm²

ALARM FOR OXYGEN SUPPLYING FAILURE

Audio visual Alarm with buzzer and LED indicator, for more than 7 seconds to warn a danger when the pressure of supplying oxygen drops below about 2.5kg/cm²

VAPORIZER

Designed to install up to maximum TWO Selectatec vaporizers.

Breathing Attachment: Standard Bains breathing Circuit

Intellegent Breathing System

GSM absorber with Integrated Bellows & Sodalime Canister system offering highest absorption efficiency offering advance features like Inbuilt APL Valve, Pressure Manometer for breath to breath Airway pressure display, integrated O₂ Sensor offering FIO₂ Monitoring, Inspiratory & expiratory flow sensors ensuring accurate delivery & monitoring of Volume.

INTEGRATED ANESTHETIC VENTILATOR

A) Vent X

Microprocessor controlled pneumatically driven integrated ventilator with ascending bellows for Adult, pediatric & neonatal application.

GENERAL

Operating Power: 100 to 240 VAC, 50/60Hz, 6.5A
Battery: 12V DC, Battery backup: 2 Hrs (full charge Time: 4 Hrs)

DISPLAY

Screen: 12" TFT Touchscreen Display

DISPLAY PARAMETERS

Real time display of P-T, F-T, V-T waveforms & P-V, F-V loops, ET/CO₂ waveform (Optional), Spo₂ Waveform (Optional)
Upto 4 waveforms & 2 loops simultaneously.
Multigas Monitoring Parameters (Optional)
Digital Flow Meter (Optional)

CONTROL

Pressure, Volume and Time controlled ventilator
Modes: VCV, PCV, SIMV+PCV+PSV, SIMV+VCV+PSV, CPAP, Manual, Standby
Breath Rate: 1 – 100 bpm
Tidal Volume: 20 – 1500 ml
I : E ratio: 4:1 - 1:10
PEEP: Integrated Electronic PEEP: 4 – 30 cmH₂O
Flow Trigger: 1 – 15 L/min
Insp. Time: 0.1 – 10 sec (Increment: 0.1 sec)
Pressure Limit: (PEEP+5) – 70 cmH₂O
Pressure Control: 5 – 70 cmH₂O
Pressure Support: 5 – 60 cmH₂O
Inspiratory Pause: 5 – 50 %

MONITORING

Insp tidal Volume: 0 to 2000ml
Exp tidal Volume: 0 to 2000ml
Minute Volume: 0 to 60L

MONITORING

Insp tidal Volume: 0 to 1500ml
Exp tidal Volume: 0 to 1500ml
Minute Volume: 0 to 60L
Spontaneous Minute Volume: 0 to 60L
Frequency: 0 to 100bpm
Spontaneous frequency: 0 to 99 bpm
I:E ratio: 3:1 to 1:6
Peak Pressure: -12 to 100 cmH₂O
Mean Pressure: 0 to 100 cmH₂O
Insp Plat pressure: 0 to 100 cmH₂O
Insp O₂: 21% to 100%
Compliance: 0 to 200mL/cmH₂O
Resistance: 0 to 200cmH₂O/(L/S)
Anesthetic Gas Monitoring, ET/CO₂

ALARMS SETTINGS

Tidal Volume: 20 to 1500ml
Minute Volume: 1 to 40L
Frequency: 1 to 60bpm
Airway Pressure: -12 to 100 cmH₂O
Insp O₂: 21% to 100%
High Continuous Airway Pressure: Alarm when airway pressure exceeds (PEEP + 15) cmH₂O for 15 seconds
Negative Pressure: Alarm when airway pressure exceeds -10cmH₂O
Alarms for Apnea, O₂ failure, Mains Failure, low battery.

OPTIONS

Vent 7 - 7"LCD Display with VCV, SIMV + Manual
Vent I - LED Display with VCV + Volume Monitoring

OPTIONAL SYSTEMS & ACCESSORIES

TEMPERATURE COMPENSATED VAPORIZER (Optional)

It is possible to use SELECTATEC Vaporizers of choice: Halothane / ISOFLURANE / ENFLURANE / SEVOFLURANE additionally installed with manifold for SELECTATEC Vaporizers.

Concentration increments

0-2 vol% in 0.2 intervals
2-6 vol% in 0.5 intervals

3 vol% safety lock

Agent capacity : 300 ± 10ml

Non-contamination-baffle in the anesthetic agent reservoir can prevent chamber inside from contaminating due to accidental tilting or inverting

Mounting type : Selectatec

Weight : 6.6kg

GAS ATTACHMENT (OPTIONAL)

Mox regulator with High Pressure Tubing for connecting to 10 Litres H₂O capacity cylinder.



Marketed & Service by :

MEDI+ON
Healthcare

Corporate office

MEDION HEALTHCARE PVT. LTD

201, Shiv Ind. Estate, K.B.B. Marg,

Chinchpokli (east),

Mumbai 400 012, INDIA.

Tel. : + 91 - 22 - 2377 1737

Fax : + 91 - 22 - 2377 1734

Email : sales@medion.co.in

http://www.medion.co.in

Formerly : Meditronics sales & services pvt. ltd.

Authorised Representative



NOTE : specification subject to change without prior notice

Asteros Royale

MEDI+ON
Healthcare

ASTEROS ROYALE A new generation anesthesia workstation offers intuitive usability and extensive flexibility providing the highest level of anesthesia delivery.

ASTEROS ROYALE is designed to grow to meet changing needs in anesthesia ensuring quality and high level patient safety it offers outstanding feature of low flow anesthesia, thereby ensuring cost efficiency and reliability

Asteros Royale

Features

- Expandable from basic anesthesia to high level ventilation parameters
- Modular design, Light weight & Compact
- Outstanding mobility.
- Strengthened safety system.
- Convenient View safety system.
- Low Flow through dual cascaded tubes of O2 and N2O.
- Supports wide range of vapourisers.
- Internationally designed GSM circle absorber system of effective recycling of gases.
- Ergonomic design ventilator.
- Top space for mounting patient monitoring system.



Ventilator options



Vent I



Vent 7



Vent X

Panel



Intuitive design front panel displaying at convenient viewing range Consist of panel pressure gauges for O2, N2O & AIR main ON/OFF switch, Fresh Gas out let Emergency Flush and O2 Failure Alarm.

Tube rotameter with backlight available for low flow selection of O2 & N2O Gas+Air.

Choice of temperature compensated vaporizer, easy selectatec compatible vaporiser

Vaporiser (optional)



Wide range of vaprisers of choice Halothane, isoflurane, sevoflurane, Desflurane, Enflurane.