



**SKANRAY**  
NOTHING IS OPAQUE

# ATHENA SV200

Integrated Anaesthesia Workstation



## Salient Features

- Integrated Anaesthesia Ventilator
- CMV - Volume Control & Pressure Control & Spontaneous Modes of Ventilation
- Comprehensive safety & alarm management



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# Technical Specifications

## Anaesthesia Trolley (Athena Integra)

### Physical Dimensions:

Trolley (WxDxH)	: 650 X 750 X 1510 mm
Base (excl cylinders & handles)	: 650 X 600 mm deep
Work surface area (table top)	: 650 X 300 mm
Caster wheels	: 10 cm diameter with front locking

### Gas Supply:

Pipeline connections	: 3 Gas (Air, O <sub>2</sub> , N <sub>2</sub> O), DISS/NIST, Non interchangeable
Pipeline input range	: 240 to 600 kpa (35 to 88 psig)
Cylinders supported	: Pin Indexed (Fitted on to yoke with filter & check valve), 2 cylinders standard (3 cylinder - optional)

### Rotameters:

5 Tube backlit with separate colour coded control for each gas  
O<sub>2</sub> - 2 tubes - Low flow - 0.1 to 1 LPM, High flow - 1 to 10 LPM  
N<sub>2</sub>O - 2 tubes - Low flow - 0.1 to 1 LPM, High flow - 1 to 12 LPM  
AIR - 1 tube - 0.1 - 15 LPM, with expanded scale at 0.1 - 1 LPM

### Anti-Hypoxic Device:

Diaphragm type for maintaining Oxygen/N<sub>2</sub>O ratio at N<sub>2</sub>O = min. (30±5) % of O<sub>2</sub> at all settings after N<sub>2</sub>O flow opening

### Vaporisers:

Two interlocked 'Tec' mounts to mount Tec 5, Tec 6 Plus or Tec 7 equivalent vaporisers

### Circle Absorber:

2 Kg double canister with manual mode support

### Emergency Oxygen Supply:

3L (at 60 psi) inbuilt reservoir for extended usage and ease of source switching. **Auxiliary Oxygen outlet** provided for direct administration

### O<sub>2</sub> Failure Protection and Alarm:

N<sub>2</sub>O supply is automatically cut off if O<sub>2</sub> supply fails

Supply failure audible alarm when supply pressure drops below	: 32 psig (Operating pressure: 60 psig)
O <sub>2</sub> flush range	: 25 to 75 LPM

### Ventilator - SV 200:

Type	: 6.5" LED backlit TFT
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### Breath types & Modes:

Volume & Pressure control, Spontaneous & Standby

### Blow-off Protection:

Blow-off valve set to bleed when the outlet pressure reaches in the range of 40 to 55 cm of H<sub>2</sub>O for the flow range of 0.5 LPM to 10 LPM

### Set Parameters:

Tidal Volume	: 50 to 1600 ml
Accuracy	: ±15%
Respiration Rate	: 4 to 100 bpm
Peak Inspiratory Pressure	: 10 to 65 cm H <sub>2</sub> O
PEEP	: OFF, 4 to 20 cm H <sub>2</sub> O (Maximum PEEP settable will be 10 cm H <sub>2</sub> O less than PIP)
I:E ratio	: 3:1 to 1:8

### Monitored Parameters & Ranges:

P <sub>aw</sub>	: -10 to 70 cm H <sub>2</sub> O
FiO <sub>2</sub>	: 0 to 100%

### Displayed Parameters:

PIP (measured), FiO<sub>2</sub> (in %) settings for - Vt, PIP, RR, I:E ratio, Mode, Limit, PEEP, Date & Time

### Displayed Waveform:

P<sub>aw</sub> waveform against time

### Alarms:

Visual	: Flashing RED with message display
Audio	: Alarm Beep
Alarm settings	: High & Low FiO <sub>2</sub> , P <sub>aw</sub>
Alarm display	: FiO <sub>2</sub> , P <sub>aw</sub> , Low battery, Negative pressure

### Dedicated Patient Safety:

Breath terminated if pressure exceeds 70 cm H<sub>2</sub>O. In addition a Redundant Mechanical Blow off valve configured at 80 cm H<sub>2</sub>O (at 65 LPM) to bleed high pressure is available

### Power & Back Up:

Voltage	: 90 to 264 VAC, 50/60 Hz
Battery	: 14.8 V, 2.2 Ah, Li-Ion
Duration	: 2 hrs (typical)
Charging time	: 3 hrs for fully discharged battery at 25 °C

### Bellows Provided:

Adult (standard), Pediatric (optional)



**CUSTOMER INTERACTION CENTER**  
Toll Free No.: **1800-425-7002**  
Email : [cic@skanray.com](mailto:cic@skanray.com)  
**Monday to Saturday - 10AM to 6:45PM**

Distributor:

## Skanray Technologies Pvt Ltd.

Registered Office and R&D Unit: #15-17 Hebbal Industrial Area, Mysore - 570016, Karnataka, INDIA. Ph: +91 821 2415559, Fax: +91 821 2403344.  
Healthcare Division: Plot #360, KIADB Indl. Area, Hebbal, Mysore - 570018, Karnataka, India. Ph: +91 821 2407000, Fax: +91 821 2407001.  
Skanray Europe s.r.l: Via Cicogna 36, 40068 San Lazzaro di Savena, Bologna, ITALY, Phone: +39 051 6285800.  
Email: [enquiry@skanray.com](mailto:enquiry@skanray.com) | [www.skanray.com](http://www.skanray.com) | CIN: U72200KA2007PTC041774

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