



9100c NXT

The anesthesia workstation that gives you peace of mind



Precise
Enables you to effectively deliver anesthesia and foster seamless recovery



Versatile
Scalable across a wide range of patient groups and surgical procedures



Dependable
Based on GE/Datex Ohmeda's legacy of 100+ years of innovation and trust



- 1

Flowhead assembly
- 2

Pipeline & cylinder pressure gauge
- 3

Task light
- 4

Breathing circuit with CO₂ bypass
- 5

System switch
- 6

ACGO port and switch
- 7

PAW gauge
- 8

7.5in(diagonal) display for 2 waveforms
- 9

USB for SW update + RS 232 (15 pin)
- 10

Selectatec manifold & vaporizers
- 11

Ergonomic handle
- 12

Oxygen flush
- 13

Wheel caster & brake
- 14

Storage space
- 15

Auxiliary power and switch
- 16

Pipeline connections
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Cylinder yoke option
- 18

Hose hooks
- 19

Scavenging system
- 20

Flip-up shelf

Physical specifications
Dimensions: Height: 145 cm/ 57.1 in Width: 87 cm/ 34.2 in Depth: 67.4 cm/ 26.5 in Weight: approximately 140 kg/ 308 lbs
Top shelf: Weight limit: 25Kg/55 lbs Width: 60.0cm/23.2 in Depth: 35.2cm/13.9 in

Work surface: Height from floor: 83.9cm/33 in Width: 53.5 cm/ 21 in Depth: 46cm/ 18.1 in
Folding side shelf (optional): Weight: limit: 12kg/25lbs Width: 27.7cm/10.9in Depth: 36.6cm/14.4in

DIN rail: Side of machine (rail height) 116.35cm/45.8 in
Drawers (internal dimensions): Height: 35.9cm/14.1 in Width: 43.1cm/16.9 in Depth: 11.2cm/4.4 in
Casters: Diameter: 12.5 cm/5 in Brakes: Individual locking

Ventilator operating specifications
Ventilation operating modes: VCV, PCV, SIMV, PSVPro™ with apnea backup
Ventilator parameter ranges
Tidal volume range: 20 to 1,500 mL (Volume Control mode)

Incremental settings: 20 to 100 mL (increments of 5 mL) 100 to 300 mL (increments of 10 mL) 300 to 1,000 mL (increments of 25 mL) 1000 to 1,500 mL (increments of 50 mL)
Pressure (P_{inspired}) range: 5 to 50 cm H ₂ O (increments of 1 cm H ₂ O)
Pressure (P_{max}) range: 10 to 99 cm H ₂ O (increments of 1 cm H ₂ O)
Rate: 4 to 99 bpm (increments of 1 bpm) 2 to 60 bpm (increments of 1 bpm) (SIMV, PSVPro™)
Inspiratory/expiratory ratio: 2:1 to 1:8
Inspiratory pause: Off, 5% to 60% with increments of 5%
Trigger window: 5% to 80% or 4 seconds, whichever is less, increments of 5%
Flow trigger: 0.2 to 10 L/min with increments of 0.2 L/min for volumes < 1 L/min; and 0.5 L/min for volumes ≥ 1 L/min.
Positive End Expiratory Pressure (PEEP)
Type: Integrated, electronically controlled
Range: OFF, 4 to 25 cm H ₂ O (increments of 1 cm H ₂ O)
Ventilator performance
Pressure range at inlet: 280 kPa to 600 kPa/ 41 psig to 87 psig
Peak gas flow: 120 SLPM + fresh gas flow
Flow valve range: 0 to 102 SLPM Fresh gas flow compensation
Ventilator monitoring
Loops: P-V, F-V loops Waveforms - Pressure, Flow
Expiratory minute volume range: 0 to 60L/min (increments of 0.1L/min)
Expiratory tidal volume range: 0 to 2,000 mL (increments of 1 mL)
O₂ %: 10 to 100% (increments of 1%)
Peak pressure: 0 to 120 cm H ₂ O (increments of 1 cm H ₂ O)
Mean pressure: 0 to 120 cm H ₂ O (increments of 1 cm H ₂ O)
PEEP pressure: 0 to 120 cm H2O (increments of 1 cm H2O)
Waveforms sweep 0 to 20 seconds
Ventilator accuracy
Delivery/monitoring accuracy
Volume delivery¹: <=300ml tidal volume - +/-12ml or +/-12% of setting, whichever is greater >300ml tidal volume - +/-10% of setting
Pressure delivery: ±10% or ±3 cm H ₂ O (whichever is greater)
PEEP delivery: ±5% or ±1.5 cm H ₂ O (whichever is greater)
Volume monitoring²: <300ml tidal volume - +/-12ml or +/-12% of reading, whichever is greater ≥300ml tidal volume - +/-10% of reading
Pressure monitoring: ±5% or ±2.4 cm H ₂ O (whichever is greater)
Alarm Setting
Tidal volume (TV_{avg}): Low: 5 to 800 mL (<10mL: increments of 5mL; >10mL: increments of 10mL) High: 100 to 1800 mL (increments of 10 mL)
Minute volume (MV_{avg}): Low: 0.1 to 15 L/min (increments of 0.1 L/min) High: 3 to 40 L/min (increments of 1 L/min)
Inspired oxygen (FiO₂): Low: 20 to 70% (increments of 1%) High: 40 to 100% (increments of 1%)
Apnea alarm: No breaths >5mL in Apnea delay time set. Apnea delay time range: 10 to 30 seconds (increment in steps of 1 second)
Low airway pressure: 1 to 20 cm H ₂ O (increments of 1 cm H ₂ O)

P_{peak} high: 10 to 99 cm H ₂ O (increments of 1 cm H ₂ O)
Sustained airway pressure: PAW> (PEEP Setting + 10cm H ₂ O) for 15 seconds
Sub atmospheric pressure: Paw < -10 cm H ₂ O
Alarm Pause
Mute duration: 110 seconds
Ventilator components
Flow sensor
Type: Variable orifice flow sensor
Dimensions: 22 mm OD and 15 mm ID
Oxygen Sensor
Type: Galvanic fuel cell
Life Cycle: Approximately 12 months (Dependent on usage)
Anaesthetic agent delivery
Delivery
Vaporizers: Tec 7
Number of positions: 2
Mounting: Tool-free installation Selectatec® manifold interlocks and isolates vaporizers



Electrical specifications
Leakage current
100/120 V: < 500µA
220/240 V: < 500µA
Power and battery backup
Power input: 100-120 Vac, 50/60 Hz 220-240 Vac, 50/60 Hz
Backup power: Demonstrated battery backup time under typical operating conditions is 90 minutes when fully charged
Battery type: Internal rechargeable sealed lead acid
Power cord: Length: 5 m Rating: 90 to 240 Vac Current capacity: 10 A for 220-240 Vac and 15 A for 100-120 Vac
Communication ports
USB 2.0 for upgrade, RS-232 (15-pin)
Inlet/outlet modules
Supply voltage: 100-120 or 220-240 Vac +/-10% at 50 or 60 Hz
Inlet circuit breakers: 100-120 Vac - 15 A 220-240 Vac - 8 A
Outlet circuit breakers: 100-120 Vac - (2) 2A (1) 3A 220-240 Vac - (2) 1A (1) 2A
System leakage current limit²- do not exceed: IEC rated systems (I): less than 500µamps for the system and all systems connected to electrical outlets.
Resistance to ground: less than 0.2 Ω
Pneumatic specifications
Auxiliary common gas outlet
Connector: ISO 22 mm OD and 15 mm ID

Gas supply
Pipeline input range: 280 kPa to 600 kPa/41 psi to 87 psi
Pipeline connections: DISS - Male; S90- 116 (French Air Liquide); BSPP 1/4, BSPP 3/8 (Scandinavian) or NIST (ISO 5359). All fittings available for O ₂ , Air, and N ₂ O
Cylinder input³: Pin indexed in accordance with CGA-V-1; contains input filter and check valve
Primary regulator diaphragm minimum burst pressure: 2,758 kPa/400 psig
Primary regulator nominal output: Pin indexed: The primary regulator is set to pressure less than 345 kPa (50 psi).
O₂ controls
Method: Proportionate decrease of N ₂ O with reduction in O ₂ flow N ₂ O cutoff with loss of O ₂ pressure
Supply failure alarm: Range: 207kPa+/-14kPa Sounds at maximum volume every 10 seconds
O₂ flush range: 25 to 75 L/min
Flowmeters
O₂ ranges: 0.1 to 1.0 L/min and 1.2 to 10.0 L/min
N₂O ranges: 0.1 to 1.0 L/min and 1.2 to 10.0 L/min
Air range: 0.1 to 10.0 L/min
Hypoxic guard system
Type: Mechanical gear
Range: Provides a nominal minimum 21% concentration of oxygen in O ₂ /N ₂ O mixture
Environmental specifications
System operation
Temperature: 10° to 40°C/50° to 104°F
Humidity: 15 to 95% relative humidity, noncondensing
Altitude: 440 to 3,565 m/500 to 800 mmHg
Oxygen cell operation: 15° to 40°C/59° to 104°F
System storage
Temperature: -25° to 65°C/ -13° to 149°F
Humidity: 10 to 95% relative humidity, noncondensing
Altitude: 440 to 5,860 m/375 to 800 mmHg

Oxygen cell storage: -15° to 50°C/5° to 122°F 10 to 95% relative humidity 500 to 800 mmHg
Electromagnetic compatibility
Immunity: Complies with all requirements of EN/ IEC
Emissions: CISPR 11 group I class B
Approvals: EN/IEC 60601-1, EN/IEC 60601-1-2, ISO 80601-2-13.
Breathing circuit specifications
Operational modes Breathing Circuit (Circle Mode only), ACGO
Carbon dioxide absorbent canister Absorbent capacity: 1200mL
Integrated expiratory limb water reservoir
Ports and connectors
Exhalation: 22 mm OD ISO 15 mm ID taper
Inhalation: 22 mm OD ISO 15 mm ID taper
Bag port: 22 mm OD
Pressure gauge
Scale range: -2 to 10 kPa/-20 to 100 cm H ₂ O
Bag-to-Ventilator switch
Type: Bi-stable
Control: Controls ventilator and direction of breathing gas within the circuit
Integrated Adjustable Pressure Limiting (APL) valve
Range: 1 to 70 cm H ₂ O
Tactile knob indication at: 30 cm H ₂ O and above
Adjustment range of rotation: 1 to 30 cm H ₂ O (0 to 230°) 30 to 70 cm H ₂ O (230 to 330°)
Materials
All materials in contact with exhaled patient gases are autoclavable, except flow sensors and O ₂ cell.
All materials in contact with patient gas are free of natural rubber latex
Breathing circuit parameters
Mechanical mode: Automatically compensates for compression losses within the absorber and bellows assembly
Circuit volume: 2.6 L Vent Mode (including absorber) 2.1 L Bag Mode
Anesthetic gas scavenging
All scavenging Positive pressure relief: 10 cmH ₂ O
Passive scavenging Negative pressure relief: 0.3 cmH ₂ O Outlet
Passive outlet connector: 30 mm male taper ISO

Active scavenging		
Disposal system type	Outlet connector ⁴	Hospital waste gas disposal system requirements
Adjustable flow, high vacuum	DISS EVAC	305mmHg(12 inHg) minimum at 30 L/min flow
High flow, low vacuum	BSI 30 mm threaded (BS6834)	50 to 80 L/min flow
Low flow, high vacuum	DISS EVAC	305mmHg(12 inHg) minimum at 36 L/min flow
Low flow, low vacuum	12.7 mm barb	36 L/min flow
Low flow, low vacuum	25 mm barb	40 to 50 L/min flow
Low flow, low vacuum	30 mm ISO taper male	40 to 50 L/min flow
<div>1: under BTPS condition</div> <div>2: Products connected to electrical outlets may increase the leakage current above these limits.</div> <div>3: Maximum 3 cylinders; all 3 inboard mounted.</div> <div>4: Other market-specific connectors may be available. Particle filter at the outlet has a pore size of 225 microns. All flow data uses a new filter.</div>		