



# 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 CO<sub>2</sub> bypass
- 5 System switch
- 6 ACGO port and switch
- 7 PAW gauge
- 8 Ventilator 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
- 17 Cylinder yoke option
- 18 Hose hooks
- 19 Scavenging system
- 20 Flip-up shelf

Physical specifications
<b>Dimensions:</b> 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
<b>Top shelf:</b> Weight limit: 25Kg/55 lbs Width: 60.6 cm/23.8 in Depth: 35.5 cm/13.9 in

<b>Work surface:</b> Height from floor: 83.9cm/33 in Width: 53.5 cm/ 21 in Depth: 46cm/ 18.1 in
<b>Folding side shelf (optional):</b> Weight: limit: 12kg/25lbs Height: 88.2cm/34.7in Width: 27.7cm/10.9in Depth: 36.6cm/14.4in

<b>DIN rail:</b> Side of machine (rail height) 116.35cm/45.8 in
<b>Drawers (internal dimensions):</b> Height: 35.3 cm/ 13.9 in Width: 42 cm/ 16.5 in Depth: 11.3 cm/5.1 in
<b>Casters:</b> Diameter: 12.5 cm/5 in Brakes: Individual locking

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

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

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



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

<b>Gas supply</b>
<b>Pipeline input range:</b> 280 kPa to 600 kPa/41 psi to 87 psi
<b>Pipeline connections:</b> DISS - Male; S90- 116 (French Air Liquide); BSPP 1/4, BSPP 3/8 (Scandinavian) or NIST (ISO 5359). All fittings available for O <sub>2</sub> , Air, and N <sub>2</sub> O
<b>Cylinder input<sup>3</sup>:</b> Pin indexed in accordance with CGA-V-1; contains input filter and check valve
<b>Primary regulator diaphragm minimum burst pressure:</b> 2,758 kPa/400 psig
<b>Primary regulator nominal output:</b> Pin indexed: The primary regulator is set to pressure less than 345 kPa (50 psi).
<b>O<sub>2</sub> controls</b>
<b>Method:</b> Proportionate decrease of N <sub>2</sub> O with reduction in O <sub>2</sub> Pressure
<b>Supply failure alarm:</b> Range: 230 kPa to 250 kPa/ 33 psig to 36 psig Sounds at maximum volume every 10 seconds
<b>O<sub>2</sub> flush range:</b> 25 to 75 L/min
<b>Flowmeters</b>
<b>O<sub>2</sub> ranges:</b> 0.1 to 1.0 L/min and 1.0 to 10.0 L/min
<b>N<sub>2</sub>O ranges:</b> 0.1 to 1.0 L/min and 1.0 to 10.0 L/min
<b>Air range:</b> 0.1 to 10.0 L/min
<b>Hypoxic guard system</b>
<b>Type:</b> Mechanical gear™
<b>Range:</b> Provides a nominal minimum 21% concentration of oxygen in O <sub>2</sub> /N <sub>2</sub> O mixture
<b>Environmental specifications</b>
<b>System operation</b>
<b>Temperature:</b> 10° to 40°C/50° to 104°F
<b>Humidity:</b> 15 to 95% relative humidity, noncondensing
<b>Altitude:</b> 440 to 3,565 m/500 to 800 mmHg
<b>Oxygen cell operation:</b> 15° to 40°C/59° to 104°F
<b>System storage</b>
<b>Temperature:</b> -25° to 65°C/ -13° to 149°F
<b>Humidity:</b> 10 to 95% relative humidity, noncondensing
<b>Altitude:</b> 440 to 5,860 m/375 to 800 mmHg

Active scavenging		
Disposal system type	Outlet connector <sup>5</sup>	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

1: under BTPS condition

2: Products connected to electrical outlets may increase the leakage current above these limits.

3: Maximum 3 cylinders; all 3 inboard mounted.

4: Values include patient circuit tubing and Y-piece 0.15 kPa (0.20 psi) expiratory resistance at 1 L/s. Patient circuit tubing and breathing system configurations may affect resistance.

5: 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.

<b>Oxygen cell storage:</b> -15° to 50°C/5° to 122°F 10 to 95% relative humidity 500 to 800 mmHg
<b>Electromagnetic compatibility</b>
<b>Immunity:</b> Complies with all requirements of EN/ IEC
<b>Emissions:</b> CISPR 11 group I class B
<b>Approvals:</b> EN/IEC 60601-1, EN/IEC 60601-1-2, ISO 80601-2-13.
<b>Breathing circuit specifications</b>
<b>Operational modes</b>
Breathing circuit is circle mode only
Carbon dioxide absorbent canister
Absorbent capacity: 1200mL
Integrated expiratory limb water reservoir
<b>Ports and connectors</b>
<b>Exhalation:</b> 22 mm OD ISO 15 mm ID taper
<b>Inhalation:</b> 22 mm OD ISO 15 mm ID taper
<b>Bag port:</b> 22 mm OD
<b>Pressure gauge</b>
<b>Scale range:</b> -2 to 10 kPa/-20 to 100 cm H <sub>2</sub> O
<b>Bag-to-Ventilator switch</b>
<b>Type:</b> Bi-stable
<b>Control:</b> Controls ventilator and direction of breathing gas within the circuit
<b>Integrated Adjustable Pressure Limiting (APL) valve</b>
<b>Range:</b> 0.5 to 70 cm H <sub>2</sub> O
<b>Tactile knob indication at:</b> 30 cm H <sub>2</sub> O and above
<b>Adjustment range of rotation:</b> 0 to 30 cm H <sub>2</sub> O (0 to 230°) 30 to 70 cm H <sub>2</sub> O (230 to 330°)
<b>Materials</b>
All materials in contact with exhaled patient gases are autoclavable, except disposable flow sensors and O <sub>2</sub> cell.
All materials in contact with patient gas are free of natural rubber latex
<b>Breathing circuit parameters</b>
<b>Compliance:</b> Bag mode: 1.82 mL/cm H <sub>2</sub> O
<b>Mechanical mode:</b> Automatically compensates for compression losses within the absorber and bellows assembly
<b>Circuit volume:</b> 2.6 L Vent Mode (including absorber) 2.1 L Bag Mode
<b>Anesthetic gas scavenging</b>
<b>All scavenging</b> <b>Positive pressure relief:</b> 10 cm H <sub>2</sub> O
<b>Passive scavenging</b> <b>Negative pressure relief:</b> 0.3 cm H <sub>2</sub> O Outlet
<b>Outlet connector:</b> 30 mm male taper ISO