OBX V1000 Ventilator
Technical Parameters

Modes of Ventilation:

- Volume Controlled (VCV), Assist/Control
  Pressure Controlled (PCV), Assist/Control
- Pressure Regulated Volume Controlled (PRVC), Assist/Control
- Synchronized Intermittent Mandatory Ventilation,
  SIMV(VCV) + PSV, SIMV(PCV) + PSV, SIMV(PRVC) + PSV
- Spontaneous Ventilation (SPONT/CPAP) + PSV
- Bi Level Ventilation (BIVENT/APRV) + PSV
- Non-invasive Ventilation (NIV/CPAP + PSV, NIV/PCV)

Parameters Ranges:

- Tidal volume: 20 ~ 2500 ml
- Respiratory rate: 1 ~ 120 bpm
- Inspiration time: 0.2 ~ 9 s
- Inspiratory pause time: 0 ~ 4 s
- Tslope: 0 ~ 2 s
- FiO_2: 21% ~ 100%
- PEEP: 0 ~ 50 cmH_2O
- CPAP (NIV): 2 ~ 20 cmH_2O
- Psupport: 0 ~ 90 cmH_2O
- Pinsp: 0 ~ 90 cmH_2O
- Phigh: 5 ~ 90 cmH_2O
- Plow: 0 ~ 50 cmH_2O
- Esens: 5% ~ 80%
- Flow patterns: square, decelerating
- Inspiratory hold
- Expiratory hold
- Nebulizer: 30 or 45 minutes
- Auto tube compensation (ATC)
- Compliance compensation
- Graphical trends
- Nurse call

Monitoring:

- Pressure values: Pmin, Pplat, Pmean, Ppeak, PEEP
- Volume/Flow values: VTI, VTE, MV, MVspont, Leak%
- Loops: Flow – Pressure, Pressure - Volume, Flow - Volume
- FiO_2
- Optional $EtCO_2$

Alarms:

MV high, MV low, Circuit disconnect, Paw high, Paw low, Continuous airway pressure high, VTi high, fspont high, Tapnea, FiO_2 high, FiO_2 low, $EtCO_2$ high, $EtCO_2$ low, Power supply failure, Battery low, Battery exhausted, Air supply failure, O_2 supply failure, PEEP low, etc.

Operating Conditions:

- Gas supply: O_2, Air, 200 ~ 650 kPa (29 ~ 94 psi)
- Power supply: 100 ~ 240 V, 50 ~ 60 Hz
- Temperature: 110 ~ 40°C (Operational)
- -20 ~ 60°C (Storage)
- Relative humidity: 15% ~ 95%, non-condensing (Operational)
- ⩽95%, non-condensing (Storage)
- Atmospheric pressure: 500 ~ 1060 hPa (Operational & Storage)
- Communication interfaces: RS232, VGA, USB, RJ45
- Dimensions (H × W × D): 624 x 774 x 1410 mm (with Cart)

Standards:

UL/IEC 60601-1, IEC 60601-1-2, IEC 60601-2-12, EN 794-1

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OBX V1000
Ventilator System

CE 0123
FDA Cleared

OBX V1000 *Ventilator System*

OBX V1000 *is a critical care ventilator for infants, children and adults. It has comprehensive functionality, a user-friendly design, and is full of high-quality, reliable treatment options for the clinician.*

- *In addition to typical ventilation modes, the* ***OBX V1000*** *also has BIVENT and PRVC to fully meet the demands of the clinician and patient.*
- ***OBX V1000*** *also includes enhanced features such as automatic tube compensation as part of the standard configuration.*
- ***OBX V1000*** *includes NIV ventilation as a standard feature. Users have the flexibility for both invasive and non-invasive therapy to reduce equipment costs.*
- ***OBX V1000*** *is full of valuable clinical features: Synchronized nebulizer*
  Inspiratory & Expiratory hold
  Manual inspiration
  Smart suction

design award 2010

OBX V1000 *Ventilator System*

Simple & Intuitive Interface:

With a 15" TFT LCD touch screen and a simple intuitive interface, the user can operate the machine with incredible ease. The display monitor can be rotated 180 degrees, allowing the user to have more flexibility during use.

Powerful Monitoring Functions:

OBX V1000 *can display waveforms and loops. With its waveform freeze function, the user has the ability to measure waveform values. Loop references can also be saved. Graphical trends of parameters and optional $ETCO_2$ monitoring provide clinicians with complete patient information.*

Lung Mechanics Monitoring (CE Only):

Automatic measurement of static compliance, airway resistance and intrinsic PEEP, clear display of data, user-friendly.

OBX V1000 *Ventilator System*

- *User-Friendly Design:*

  The user can easily position the ventilator by using the handles that surround the main unit. By using the side rails of the machine, the user can add modules as needed, such as a humidifier or carbon dioxide monitoring module.

- ***OBX V1000****'s easy to remove, autoclavable exhalation valve module keeps maintenance costs low.*
- *A built-in battery eliminates the need to worry about power interruptions. An optional second internal battery is available.*
- *An intelligent alarm system reinforces the machine's high level of safety.*