

Technical specifications of Transport Ventilator

The equipment should have time-cycled, volume controlled emergency and transport ventilator facility with Pressure Support for patients requiring mandatory or assisted ventilation with a tidal volume from 100 ml upwards.

MAJOR PARAMETERS

Technical Requisites

Gas supply - Supply gas Medical Oxygen

Pressure 250 - 650 k Pa at 100 L/min

Gas consumption for internal control 0.1 to 0.5 L/min

Ventilation Modes - VC-CMV, VC-AC, VC-SIMV, Spontaneous CPAP

Pressure Support Ventilation and Non-Invasive (mask) Ventilation

Apnea Ventilation (For switching over automatically to volume-controlled mandatory ventilation, if breathing stops)

Ventilation respiratory rate 2 to 50 /min ± 1 /min (VC-SIMV)

5 to 50 /min ± 1 /min (VC-CMV, VC-AC)

12 to 50 /min ± 1 /min for apnea ventilation

Tidal Volume VT 100 to 2000 ml, BTPS

Ventilation time ratio I:E 1:4 to 3:1 (VC-CMV, VC-AC)

Inspiration time Ti 0.2 to 10 seconds (VC-SIMV, VC-SIMV / PS)

FiO2 concentration 100% (No-Air Mix) or approximately 40% (O2 Air Mix)

PEEP 0 to 20 mbar / cmH2O

Trigger sensitivity (flow trigger) 3 to 15 L/min

Pressure support 0 to 35 mbar (relative to PEEP), slope adjustable in 3 steps

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Maximum inspiratory flow 100 L/min (supply pressure > 350 kPa / 51 PSI, 80 L/min (supply pressure less than 350 kPa / 51 PSI)

Measured value display V_{Te}, M_{Ve}, M_{Vespon}, RR, RR_{sp}, PEEP, P_{mean}, PIP, P_{plat}, O₂

Display: Electro-luminescence,

Pixels: 240 * 128, Visible area: 108 * 56 mm / 4.25 x 2.20 inch

Dimensions (W x H x D) - 285 x 184 x 175 mm / 11.10 x 7.24 x 6.89 inch

Weight approximately 5 to 6 kg (including internal battery)

Power supply

Input voltage 19 V ± 0.5 V DC

AC/DC power pack Input: 100 to 240 V AC, Output: 19 V DC

DC/DC converter Input: 12 / 24 / 28 V DC, Output: 19 V DC

Battery type Lithium ion battery

Operating time Approximately 4 hours (fully charged, "Typical" ventilation)

Battery charging time Approximately 5 hours

Monitoring

Supply pressure low Supply pressure < 270 kPa / 39 PSI

Airway pressure (Paw high) International: Adjustable from 20 to 60 mbar, USA: Adjustable from 20 to 100 cmH₂O

Airway pressure (Paw low) When pressure difference between inspiration and expiration < 5 mbar / cmH₂O or when the set pressure level is not reached Apnea alarm time Tapn Adjustable from 15 to 60 seconds (not active when using NIV)

Leakage V_{Te} is approximately 40% lower than V_{Ti}

High respiratory rate Patient breaths at a high spontaneous rate

Operating Conditions

Temperature -20 to 50 °C / 14 to 122 °F

Atmospheric pressure 570 to 1200 hPa / 17 to 35 inches mmHg

Relative humidity 5 to 95%



Electromagnetic compatibility EMC In accordance with ICE/EN 60601-1-2:2001 and ISO 10651-3

Airworthiness In accordance with RTCA DO - 160D, sections 7, 8 & 21

Mechanical strength In accordance with MIL STD 810F, method 514.5, Classification according to Class IIb MDD 93/42/EEC, UMDNS-Code 18-098

MINOR PARAMETERS

Three sets of Non invasive masks and ventilation tubing to be supplied with the equipment.

Suitable trolley to be supplied for storage of the equipment.

Conditions Any fault must be repaired within 24 hours by company. Install at Intensive Care Unit of Central Hospital, WCR, Jabalpur (M.P.)

Warranty period- Twenty four months after installation.

Annual maintenance contract / Comprehensive maintenance contract, Five years after warranty period. Rates must be quoted.



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Annexure-II

To be submitted by the firm along with offer-

Tender specification	Specification quoted by the firm	Deviation if any with clarification