# SP-100 Mechanical Ventilator

SP-100 is a respiratory device designed for long-term mechanical ventilation, which can provide continuous or intermittent ventilation support for patients who need invasive or non-invasive mechanical ventilation.

SP-100 can be used in 7 different ventilation and breath mode combinations.



*Figure 1: SP-J00 (intensive care and tiome)*

Ventilation Modes A-PC, A-VC, SIMV-PC, SIMV-VC, PC, VC, CPAP/PSV

Inspiratory Pressurei 4-50 cmH20 Inspiration Time 0.3-5 s

I nspiratory Trigger 1-5

Rise Time 1-9

PEEP 0-30 cmH20

Number of Breaths 4 40

Tide Volume 50-3000 mL

Battery 16.8 V, 2.5A, 42W Li-ion

Screen 7.5” TFT Touch Screen

tVeight 4,6 kg

Dimension 33x33x18 cm

*Table 1:* £echnico/ *Properties Sfiort Notes*

* A PC - Auxiliary Pressure Controlled Ventilation
* PC - Pressure Controlled Ventilation
* SIMV-PC - Pressure Controlled with Synchronized Intermittent Mandatory Ventilation
* A-VC - Auxiliary Volume Controlled Ventilation
* VC - Volume Controlled Ventilation
* SIMV-VC - Volume Controlled with Synchronized Intermittent Mandatory Ventilation
* CPAP / PSV - Continuous Positive Airway Pressure / Pressure Assisted Ventilation Technical Specifications

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| --- | --- |
| Breathing Mode | A-PC, A-VC, SIIVIV-PC, SIMV-VC, PC, VC, CPAP / PSV |
| Breathing Circuit | Dual Line |
| PEEP | 0-30 cmH2O |
| Rise Time | 1-9 |
| Inspiratory Trigger | 1 5 |
| Inspiratory Time | 0.3 5 s |
|  Number of Breaths | 4 40 breaths (1 minute intervals per minute) |
| Patient Pressure | 4-S0 cmH20 |
| Tide Volume | 50-3000 mL |
| Alarms | High pressure, Low Pressure, Apnea Time, Mains voltage,Built-in battery, High tidal, *Low* Tidal, High Minute Volume, Low Minute Volume, Patient Connection, High BPM, Low BPM |
| Apnea Time | can be adjusted between 0-60 seconds |
| display | 7.5 inch Colo r Touch Screen |
| Internal Battery | 16.8 Volt, 2.5A, 42W |
| Configuration and Control | Adjustment with Colo r Touch Screen and Rotary Button |
| Classification | II |
| Current Protection | BF |
| Storage Conditions | 20°C / 60°-C, 15% -95%, 700hPa-1060hPa |
| Operation Conditions | 5°-C / 40°C, 15% -95%, 700hPa-1060hPa |
| Electrical characteristics | 185-240V / 50-60Hz / 3A Fuse / 77VA |
| Physical Properties | 4.6kg33X33 X18cm |
| Electrical safety & EMC | Conforms to IEC 60601-1 and IEC 60601-1-2 |
| Warranty | 2 years |
| IEC 60601-1 Classification | Number of Poles: 1Declared Voltage (Un): 185-240 VACDeclared Operating Voltage (Ue): 185-240 VAC Declared Current (In): 1.5 ADeclared Frequency (fn): 50-60 Hz Fuse: 3AType of protection against electric shock: Class II Degree of protection against electric shock: Type BFDeclaration protection degree against impacts and water: IP 21 |

*Table 2: SP-TOO* £erhnico/ Properties