

HAMILTON T1

ABOUT

The **Hamilton T1** is an advanced ventilator designed to deliver critical respiratory support in both clinical and transport environments. Combining compact design with cutting-edge technology, it ensures precise ventilation for various patient needs, from neonatal to adult care. This ventilator is ideal for use in emergency care, inter-hospital transfers, and intensive care units, offering both performance and portability. Its robust design and intuitive interface make it a trusted choice for healthcare professionals.

FEATURES

- **Adaptive Support Ventilation (ASV):** Automatically adjusts ventilation to meet changing patient needs, optimizing oxygenation and CO2 elimination.
- **Portable and Lightweight:** Compact size and low weight allow for easy transport and mobility.
- **Integrated Monitoring:** Real-time display of waveforms, trends, loops, and intelligent panels for comprehensive patient assessment.
- **Advanced Alarms:** Includes visual and audible alarms to notify caregivers of critical changes in patient conditions.
- **Battery Backup:** Dual battery system provides up to 8 hours of operation, ensuring uninterrupted care during transport.
- **Wide Mode Compatibility:** Supports invasive, noninvasive, and high-flow oxygen therapy modes.
- **Rugged Build:** Durable construction for use in demanding environments such as ambulances, helicopters, and field hospitals.



SPECIFICATIONS



DIMENSIONS

Height: 9.6 in (24.5 cm)
Width: 11.7 in (29.8 cm)
Depth: 12.2 in (31 cm)
Weight: 14.3 lbs (6.5 kg)

POWER AC

Input Voltage: 100–240 V AC, 50–60 Hz
Power Consumption: Typical 50 VA, Maximum 150 VA

BATTERY

Type: Lithium-ion, Hamilton-specific battery
Runtime: 4 hours with one battery,
8 hours with two batteries
Recharge Time: ~3.25 hours for one battery,
~6.25 hours for two batteries

PNEUMATIC SPECIFICATIONS

High-Pressure Oxygen Inlet: 2.8–6 bar (41–87 psi)
Low-Pressure Oxygen Inlet: ≤ 15 l/min, Maximum 6 bar (87 psi)
Flow Accuracy: $\pm 10\%$ or ± 300 ml/min (whichever is greater)
Delivered Flow: ≥ 260 L/min (ambient pressure)

ENVIRONMENTAL CONDITIONS

Operating Temperature: 41–122°F (5–50°C, Adult/
Pediatric); 41–104°F (5–40°C, Neonatal)
Storage Temperature: -4–140°F (-20–60°C)
Humidity: 5–95% RH, non-condensing

DISPLAY

Type: Color TFT touchscreen
Size: 8.4 inches
Resolution: 800 × 600 pixels

SUPPORTED VENTILATION MODES

Volume-Controlled Modes: APVcmv, APVsimv
Pressure-Controlled Modes: PCV+, PSIMV+,
DuoPAP, APRV
Spontaneous Breathing Modes: SPONT, ASV
Noninvasive Modes: NIV, NIV-ST
Special Modes: nCPAP, High Flow Oxygen Therapy
(HiFlowO2)

INTERFACES

Connectivity: USB, RJ-45 Ethernet
Optional Modules: CO2 sensor, SpO2 monitoring,
Hamilton Connect app for remote monitoring