

# HAMILTON C-1



## ABOUT

The **Hamilton C-1 ventilator** is a compact, versatile, and high-performance ventilator designed for both invasive and non-invasive applications. This ventilator offers advanced functionality in a small footprint, making it ideal for intensive care units, emergency transport, and mobile applications. Its user-friendly interface ensures ease of operation while maintaining precision and reliability, helping medical professionals provide optimal care for patients. The Hamilton C-1 is built to deliver outstanding performance and adaptability across a wide range of patient settings.

## FEATURES

- **Modes:** Offers various invasive and non-invasive ventilation modes to suit diverse patient needs.
- **Compact Design:** Lightweight and portable for use in ICUs or transport environments.
- **Integrated Battery:** Ensures uninterrupted operation during transport or power outages.
- **Easy-to-Use Interface:** Simplified controls and a high-resolution touchscreen for intuitive operation.
- **High-Flow Oxygen Therapy:** Supports HFOT for improved patient outcomes in respiratory therapy.
- **Advanced Monitoring:** Includes respiratory monitoring for real-time feedback and analysis.
- **Durable Construction:** Designed for long-term use in challenging clinical environments.



# SPECIFICATIONS



## DIMENSIONS

**Height:** 9.6 in (24.5 cm)

**Height(Unit + Rolling Stand):** 54.3 in (138 cm)

**Width:** 12.2 in (31 cm)

**Width(Unit + Rolling Stand):** 24.8 in (63 cm)

**Depth:** 8.3 in (21 cm)

**Depth(Unit + Rolling Stand):** 24.8 in (63 cm)

**Weight:** 4.9 kg (10.8 lbs)

**Weight(Unit + Rolling Stand):** 16.9 kg (37.3 lbs)

## POWER

**Input Power:** 100–240 VAC, 50/60 Hz.

**Battery:**

**Type:** Lithium-ion.

**Capacity:** 6.7 Ah (72 Wh).

**Typical Operation Time:** 4–4.5 hours, depending on settings.

**Recharge Time:** Approximately 3.25 hours.

**Power Consumption:** 50 VA (typical), 150 VA (maximum).

## WEIGHT CAPACITY

**Type:** 8.4 in (214 mm) TFT color display.

**Resolution:** 640 x 480 pixels.

**Brightness:** Adjustable from 10% to 100%.

## MOBILITY

**High-Pressure Oxygen Inlet:**

**Pressure:** 2.8 to 6 bar (41 to 87 psi).

**Flow:** Maximum of 200 l/min.

**Connector:** DISS or NIST.

**Integrated Blower:** Delivered Flow: >260 l/min  $\pm$ 10% against ambient pressure at sea level.

**Delivered Pressure:**

**Adult/Pediatric:** 0–60 cmH<sub>2</sub>O.

**Neonatal:** 0–45 cmH<sub>2</sub>O.

**Flow Accuracy:**  $\pm$ 10% or  $\pm$ 300 ml/min (whichever is greater).

**Inspiratory Outlet (Patient Port):** ISO ID15/OD22 conical.

## OPTIONAL FEATURES

**Inspiratory Pressure Range:** 0–60 cmH<sub>2</sub>O.

**Tidal Volume:**

**Adult/Ped:** 20–2000 ml.

**Neonatal:** 2–300 ml.

**Minute Volume Capability:** Up to 60 l/min.