



The **HAMILTON-MR1** ventilator provides positive pressure support for adult and pediatric patients. This Ventilator from Hamilton Medical can be used in an MRI department and is a good fit for patient transport within a medical facility. This is a fully functioned electronically controlled ICU ventilator. The MR1 ventilator can be used in a magnetic field strength of 50 mT.

## Features

- Adult, pediatric, and optional neonatal ventilation compatibility.
- High-performance turbine allows this ventilator to run independent from compressed air.
- Leak compensation for NIV and invasive ventilation.
- Up to 9 hours runtime on battery power.



## Specifications

### Dimensions

**Height:** 10.43" (26.5 cm)

**Width:** 11.1" (30 cm)

**Length:** 8.3" (21 cm)

**Weight:** 15 lbs (6.8 kg)

### Pneumatics

#### High-pressure Oxygen Inlet

Pressure: 2.8 to 6 bar / 280 to 600 kPa / 41 to 87 psi

Flow: Maximum of 200 l/min

Connector: DISS (CGA 1240) or NIST

**Air Supply:** Integrated blower

#### Delivered flow

260 l/min  $\pm$ 10% against ambient pressure (at sea level); 120 l/min at 30 cmH<sub>2</sub>O; 0 to 200 l/min with 100% O<sub>2</sub>; Flow limitation in neonatal modes: 40 l/min

#### Flow accuracy (for calibrated flow sensor)

Adult/Ped:  $\pm$ 10% or  $\pm$ 300 ml/min (whichever is greater)

Neonatal:  $\pm$ 2 ml/s or  $\pm$ 10% (whichever is greater)

#### Delivered pressure

Adult: 0 to 60 cmH<sub>2</sub>O

Neonatal: 0 to 45 cmH<sub>2</sub>O

**Inspiratory outlet** (To patient port) Connector: ISO 15 mm female/22 mm male conical

**Expiratory outlet** (From patient port) Connector (on expiratory valve): ISO 15 mm female/22 mm male conical

### Battery

**Electrical:** 10.8 V DC, 6.7 Ah, 72 Wh, 50 W typical, 150 W maximum

**Type:** Lithium-ion

**Operating time:** Operating times are measured with two fully charged batteries. Maximum run time: 9 hours.

**Recharge time:** While the ventilator is connected to primary power, approximately 3.25 h to fully recharge one battery, approximately 6.25 h to fully recharge two batteries.

### Magnetic Field

#### Static magnetic field

$\leq$  50 mT

Corresponds to approximately 1 m distance from the front of a 3.0 T MRI scanner.

### Electrical

**Input Power:** 100 to 240 VAC -15% /+10%, 50/60 Hz

**Power Consumption:** 50 W typical, 120 W maximum



# Specifications

## **Ventilation Modes**

Intelligent ventilation modes with Adaptive Support Ventilation (ASV)  
Pressure-controlled modes (including biphasic modes)  
Volume- controlled modes (adaptive)  
Pressure support modes  
Modes for noninvasive ventilation

