The Gradian CCV is built to ventilate critically-ill patients wherever they present, with battery and portability features to enable ease of use throughout the continuum of critical care.

**PORTABILITY FEATURES**
Sturdy rolling cart for bedside use, plus bed hooks, handle, and shoulder strap intra-hospital transfers.

**USER-FRIENDLY INTERFACE**
Tactile, straightforward interface with programmable ventilation profiles for specific disease states.

**GAS SOURCE FLEXIBILITY**
Integrated compressor and gas mixer, plus hoses and adapters for most oxygen and air sources.

**OXYGEN RESERVOIR**
External oxygen reservoir that allows for use with an oxygen concentrator or flowmeter, if high-pressure oxygen sources are not available.

**EXTENDED BATTERY BACKUP**
Internal battery that enables 7 hours of operation without mains power, plus optional additional 14-hour external battery.

**RECOGNIZED SOLUTION**
The CCV fulfills or exceeds most of the essential specifications recommended by the WHO for ICU, transport, and sub-acute ventilators for COVID-19 care.
### PATIENT RANGE
- Infant/Pediatric (≥ 5 kg) - Adult

### MODES
- **Ventilation modes**: V-AC, V-SIMV, P-AC, P- SIMV, CPAP/BIPAP
- **Quick Start Modes**: Adult and Child
- **Custom modes**: 3 programmable profiles available for quick recall

### MONITORED PARAMETERS
- **Measured**: Airway Pressure, Delivered Tidal Volume, Spontaneous Breath Rate
- **Calculated**: I:E Ratio, Flow, %O2

### CONTROL SETTINGS
- **Tidal volume**: 40 – 2000 mL
- **Respiratory rate**: 0 or 5 – 60 bpm
- **Insp. time**: 0.5 – 2.0 sec
- **PEEP/CPAP**: 0 – 25 cmH₂O
- **Pressure support**: 0 – 25 cmH₂O*
- **Flow**: 5 – 60 L/min (≥ 80 L/min in some modes)
- **Target pressure**: 15 – 55 cmH₂O
- **Trigger**: Pressure, -5 – -1 cmH₂O
- **Pressure relief**: ≤ 85 cmH₂O
- **Set %O2**: 21% – 100%
- **Settings lock**: On/Off

### ACCESSORIES
- **Breathing circuits**: Single limb, reusable (adult and pediatric)
- **Humidification**: Active humidifier with reusable accessories, HMEF-compatible
- **Portability**: Rolling stand, handle, bed hooks, shoulder strap
- **Additional**: Pulse oximeter, gas source adapters, HMEF starter kit

### ELECTRICAL AND GAS SUPPLIES
- **Oxygen input**: High pressure port (0 – 80 psi)
- **Air input**: Low pressure barb (< 10 psi)
- **Battery**: Reservoir for low-flow sources
- **Input voltage**: Room air (internal compressor)
- **Battery**: Internal, 7 hr backup
- **External**: External, 14 hr backup (optional)
- **Input voltage**: 110 – 240 VAC, 50/60 Hz, <1A

### PHYSICAL DIMENSIONS
- **Dimensions**: 340 × 130 × 350 mm
- **Weight**: 8.5 kg (18.8 lb)

### ENVIRONMENTAL
- **Shock**: 100 G-Force
- **Vibration**: IEC 60068-2-6
- **Operating**: -18°C – 50°C, 5 – 95% RH
- **Storage**: -40°C – 60°C
- **Ingress**: IP22

### COMPREHENSIVE WARRANTY
- Annual preventive maintenance checks
- Timely corrective maintenance with on-demand access to technical experts
- Local storage of spare parts for fast and easy access

### HIGH-QUALITY TRAINING
- In-person and online formats, covering real-world clinical scenarios like obstetric emergencies with high-fidelity simulation
- Taught by leading physicians, and is accredited in several countries

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**info@gradianhealth.org**  **+1 917 396 7030**  **gradianhealth.org**