

# Comprehensive Care Ventilator

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 intrahospital 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.



# **CCV Product Specifications**

#### **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

#### **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 cmH <sub>2</sub> O
Pressure support	0 - 25 cmH <sub>2</sub> O*
Flow	5 - 60 L/min (≥ 80 L/min in some modes)
Target pressure	15 - 55 cmH <sub>2</sub> O
Trigger	Pressure, $-51 \text{ cmH}_2\text{O}$
Pressure relief	≤ 85 cmH₂O
Set %O2	21% - 100%
Settings lock	On/Off

#### **MONITORED PARAMETERS**

Measured	Airway Pressure, Delivered Tidal Volume, Spontaneous Breath Rate
Calculated	I:E Ratio, Flow, %O2

#### 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) Low pressure barb (< 10 psi) Reservoir for low-flow sources
Air input	Room air (internal compressor)
Battery	Internal, 7 hr backup 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

# Guaranteed with Every Purchase

#### COMPREHENSIVE WARRANTY

- Annual preventive maintenance checks
- Timely corrective maintenance with ondemand access to technical experts
- Local storage of spare parts for fast and easy access

# **HIGH-QUALITY TRAINING**

- In-person and online formats, covering realworld clinical scenarios like obstetric emergencies with high-fidelity simulation
- Taught by leading physicians, and is accredited in several countries

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