

The Gadian CCV



Product Features & Specifications

The Gadian CCV is a **comprehensive care ventilator** that provides mechanical ventilation in a wide variety of settings—including those with an unreliable supply of power or oxygen. The CCV offers management options for post-op, intensive, and critical care, and facilitates ventilation during transport within and between hospitals. It comes with installation, user training, and a three-year service warranty carried out by certified local technicians.



Portability Features

Bed hooks, handle, and shoulder strap for convenient use and transportation in any setting

Fully-Automatic Ventilator

Pneumatically-driven mechanical ventilator with 7 hours of rechargeable internal battery

Internal Compressor

Built-in air compressor that uses room air to supplement existing oxygen sources or ventilate patients when medical oxygen is unavailable

Breathing Circuit

Durable, reusable, single-limb silicone patient circuit

Oxygen Reservoir

Reservoir enabling use with low-flow oxygen sources like a concentrator or flowmeter

External Battery

Hot-swappable, rugged battery providing additional 14 hours of operating time (up to 21 hours in total)

Rolling Stand & Base

Sturdy aluminum frame with handle and basket, mounted on a no-tip base with 5 durable casters



gadianhealth.org



info@gadianhealth.org



+1 212-537-0340

The Gadian CCV is CE-certified and has been cleared by the U.S. FDA.

Patient Range

Infant/Pediatric (≥ 5 kg) – Adult

Power Requirements

AC Voltage: 110 – 240 VAC, 50/60 Hz, max 1A



Note: The Gradian CCV comes with reusable breathing circuits.

Control/Settings

Quick Start Modes:	Adult & Child (programmable)
Ventilation Modes:	<ul style="list-style-type: none">• (Pressure or Volume) Assist Control• (Pressure or Volume) SIMV• CPAP & Bi-PAP• Custom modes (3) with programmable ventilation settings available for quick recall
Mode Switch:	Seamless transition between pressure and volume modes
Tidal Volume:	40 – 2000 mL
Respiratory Rate:	0 or 5 – 60 BPM
Inspiratory Time:	0.5 – 2.0 sec
PEEP/CPAP:	0 – 25 cmH ₂ O
Pressure Support (PS):	0 – 25 cmH ₂ O*
Flow:	5 – 60 L/min (flows ≥ 80 L/min possible in PS mode, CPAP & demand flows)
Pressure Control (Target Pressure):	15 – 55 cmH ₂ O
Trigger Sensitivity:	-5 – -1 cmH ₂ O
Safety Pressure Relief:	≤ 85 cmH ₂ O
Set FiO₂:	21% – 100%
Flow Wave Pattern:	Square or descending**
Settings Lock:	On/Off

*PEEP + PS cannot exceed 25 cmH₂O; **Based on mode selected

Gas Source

Air/Oxygen Mixer:	Integrated
Oxygen Input:	0 – 80 psi for cylinder, pipeline, or concentrator connection or low-pressure (< 10 psi) barb connection for cylinder during transport
Air Input:	40 – 80 psi DISS connection or room air entrainment via internal compressor

Dimensions (without rolling cart)

Width:	34 cm (13.3 in)
Depth:	13 cm (5.3 in)
Height:	35 cm (13.8 in)
Weight:	8.5 kg (18.8 lb)

Signal Connections

Remote Alarm: ¼" phone jack to connect to nurse call or remote system, normally open/closed

Monitored Parameters

Measured Parameters:	Calculated Parameters:
<ul style="list-style-type: none">• Airway Pressure (Peak, Base)• Delivered Tidal Volume• Spontaneous Breath Rate• Internal Battery Level• External Battery Level	<ul style="list-style-type: none">• I:E Ratio• Flow rate• FiO₂

Battery Parameters

Battery Composition:	Sealed lead acid
Internal Battery:	Up to 7 hours
External Battery:	Up to 14 hours

Environmental

Shock:	100 G-Force
Vibration:	To IEC 60068-2-6
Operating Temperature:	-18°C – 50°C (0°F – 122°F)
Storage Temperature:	-40°C – 60°C (-40°F – 140°F)
Operating Humidity:	5 – 95% non-condensing
Ingress Protection:	IP22

Alarms

High Airway Pressure:	10 – 55 cmH ₂ O
Low Airway Pressure:	5 – 15 cmH ₂ O
Apnea:	After 20 sec, activates apnea mode
Low Source O₂:	Triggers at 40 psi
Low Source Air:	Triggers at 40 psi
System Failure:	Malfunction alert
Critical Battery:	Approx. 20 min of battery charge remaining
Audible Alarm:	≥ 70 dB
Silence/Reset:	110 sec