

ICV

Intensive Care Ventilator

The Gradian ICV is an all-in-one ventilator for intensive and critical care, as well as transport and intermediate care.

VERSATILE USE

With extensive modes and monitoring parameters, in-built turbine, battery backup, and compact form factor, the ICV is easy to use in any location within a hospital, or for transport within or outside the facility.

ADVANCED VENTILATION MODES

The ICV is designed to deliver care to infant, pediatric, and adult patients in any setting. It comes standard with a range of invasive and non-invasive ventilation modes to fit the clinical need, as well as optional modes including high flow oxygen therapy.

SOPHISTICATED MONITORING

Combining extensive monitoring parameters and respiratory diagnostics with dedicated display pages, the ICV can measure, display, store, and export the information needed for precise, high-quality care.

FULLY PORTABLE

The ICV's trolley is designed to easily hold or move the ventilator and accessories, including oxygen cylinder bracket, humidifier, and circuit support arm.

SMART CPR MODE

The innovative CPR mode gives step-by-step audible and visual instructions for performing CPR and breathing as per AHA and ERC's latest guidelines.



ICV Product Specifications

VENTILATION PARAMETERS

Tidal volume	10 - 2000 mL
Insp. pressure	1 - 90 cmH ₂ O
Maximum flow	> 180 L/min
Resp. rate	0 - 150 bpm
Insp. time	0.2 - 10 sec
Insp. pause	0% - 60%
FiO ₂	21% - 100%

VENTILATION MODES

Standard	IPPV, PCV, V-A/C, P-A/C, V-SIMV, P-SIMV, CPAP/PSV, CPR
Optional	PRVC-SIMV, APRV, BIPPV, HFNC

MONITORING

Weaning	PO.1, RSBI, WOB
Real-time waveforms	Pressure, Volume, Flow, EtCO ₂ (optional)
Loops	P-V, F-V, P-F, EtCO ₂ -V
Trends	1, 15, 30, or 60 minutes
Tools	Suction, Nebulization, Dynamic lung, P-V tool (optional), Lung recruitment (optional)
Event log	Up to 5000 events
Utilities	Automated self-checks, Leak and compliance compensation

ACCESSORIES

Workstation	Trolley, circuit support arm, active humidifier, cylinder support
Ventilation Accessories	Reusable accessories, consumables starter pack, EtCO ₂ module (optional)

ELECTRICAL AND GAS SUPPLIES

Input voltage	100 - 240 VAC, 50/60 Hz
Power	≤ 140 W
Battery	Internal, max 6 hr backup
High pressure oxygen input	DISS, 280 - 600 kPa (40.6 - 87 psi)
Low pressure oxygen input	Quick connect, ≤ 15 L/min, ≤ 100 kPa (14 psi)
Air supply	Integrated turbine, filtered
Protection	IP43

PHYSICAL DIMENSIONS

Weight	6.2 kg (13.7 lb) without trolley
Display	10.4 in TFT color touchscreen

ENVIRONMENTAL

Temperature	-10°C - 50°C (Operation) -20°C - 60°C (Storage)
Humidity	10 - 95% RH
Pressure	50 kPa - 110 kPa atmospheric
Interfaces	VGA, USB, RS232, Ethernet, CO ₂

Guaranteed with Every Purchase

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

