



Introducing the CAE Air1 mechanical ventilator

CAE Healthcare
Making Healthcare Safer

CAE Air1 is intended as a continuous mechanical ventilator for invasive applications with the provision of an adjustable percentage of oxygen in the breathing gas. CAE Air1 is indicated for use on adult patients in healthcare facilities, and under the supervision of trained healthcare providers.

CAE Air1 is indicated for use on adult patients with respiratory insufficiency or failure, in healthcare facilities, and under the supervision of trained healthcare providers.

** CAE Air1 is not available for sale in all locations. Please contact your representative for information.*

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Engineered for Simplicity.

At CAE, our mission is to make healthcare safer. Our partners on the front lines of the COVID 19 Pandemic asked for our help. We're delivering.

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CAE Air1 harnesses more than 70 years of engineering excellence, software innovation, best in class manufacturing, and more than a decade of training thousands of healthcare providers worldwide. 24/7 tech support is available if you ever need help. Thank you for all you're doing to save lives.

General		Details
Intended Use	Intended for respiratory support, monitoring and treatment of adult patients. For use by healthcare providers only, in professional healthcare facilities.	
General	Base Weight	67 kg
	Dimensions	54.7"H x 17.0"W x 13.1"D (139 cm x 43 cm x 33 cm)
	Wheels	4 Wheels with locks
	Sound Pressure	80 DB, measured at 1 M for alarms
	Patient Range	Adult
	Gas Delivery System	Blower
	Max Airway Pressure	50 cm H ₂ O (up to 80 cm H ₂ O in VC mode)
	Method of Triggering	Pressure trigger from 0.5 - 20 cm H ₂ O
	Inspiratory Flow Range	Up to 100 l/min
	PEEP Regulation	Electronically controlled valve
Serviceable Life	10 years	
User Interface	Type	TFT-LCD touchscreen
	Viewing Area	15"
Power Supply	AC Power Adaptor	110 - 120 VAC 60 Hz +/- 5%
	Backup battery	Lead Acid Primary backup, Lithium Ion alarm backup rechargeable batteries
	Battery Backup Time	> 20 minutes
	Typical Max Power Consumption	6 amps
Gas Supply	Gas Inputs	Ambient room air and pressurized O ₂
	Inlet Gas Pressure air/O ₂	344 kPa / 3.4 Bar / 45-87 psi
	Connections Standards Available	DISS
	Patient System Gas Connectors	Male 22 mm / female 15 mm, in accordance with ISO 5356-1
Operating Conditions	Temperature	10°C - 35°C
	Relative Humidity	10 to 85% non-condensing
	Atmospheric Pressure	<2000 m altitude
	Artificial Light	Incandescent, halogen, fluorescent and LED
Display	Operation Views	Fully numeric view
		Graphs and numerics (2)
		Graphs and loops
	Real-Time Waveforms	Pressure
		Flow
Loops	Pressure - Volume	

General		Details
Parameter Settings	Tidal Volume (ml)	200 - 1500 ml
	Max Airway Pressure	Up to 80 cm H ₂ O
	Respiratory Rate (Breaths/min)	4 - 50 bpm
	I:E Ratio	Adjustable 1:1 to 1:4
	Inspiratory Airway Pressure	Adjustable 10 - 50 cm H ₂ O
	Emergency Pressure Relief Valve	Based on Ppeak High Alarm, up to 80 cm H ₂ O
	Inspired O ₂ Concentration	21 - 100%
	Pressure Trigger	0.5 - 20 cm H ₂ O
Ventilation Modes	Controlled Ventilation	PC (Pressure Control)
		VC (Volume Control)
	Supported Ventilation	PS (Pressure Support)
Safety Back-up Parameters	RR Backup	Default 15 or manually configurable
	Pi Backup	Default 15 cm H ₂ O or manually configurable
	I:E Ratio Backup	Default 1:2 or manually configurable
Monitoring and Data	Positive End-Expiratory Pressure	PEEP
	Fraction of Inspired O ₂	FiO ₂
	Total Respiratory Rate	RRtotal
	Inspiratory: Expiratory Ratio	I:E
	Inspiratory Time	Ti
	Expired Tidal Volume	VTe
	Peak Airway Pressure	Ppeak
	Mean Airway Pressure	Pmean
	Estimated Plateau Pressure	Estimated Pplateau
	Minute Ventilation	MVe
	Spontaneous Respiratory Rate	RRsp
	Peak Inspiratory Flow	Peak Insp Flow

Email for Support: caeair1support@cae.com
Customer support website: caehealthcare.com/caeair1

caehealthcare.com

For information about CAE Healthcare products in the U.S. & Canada contact your regional sales manager, visit our website or call +1 941-377-5562 or Toll-free number 866-233-6384

To locate an international distributor in your country visit caehealthcare.com/contact-us

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