



Ventilator Series for COVID-19



PV-3100D Portable Ventilator



MV-3100 Medical Ventilator



PV-3100C Portable Ventilator



CPAP-3200D Infant CPAP System



IV-3200Y Infant Ventilator



V-3201 Ventilator

EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

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MV-3100 Medical Ventilator



>> Technical Specifications

PARAMETER		SPECIFICATION	
	Insp. Phase	+/-0.1kPa Green Indicator	
Indicators	Charging	Red Indicator	
Indicators	Exh. Phase	Green Indicator	
	Low Battery	Red Indicator	
Breat	h Rate	10, 15, 20, 25, 30, 35bpm	
I:E		2:1, 1:1, 1:1.5, 1:2, 1:2.5, 1:3	
Tidal Volume		300~1000ml	
W*D*H		380X120X240mm	
Weight		Зkg	
AC Voltage		110V~240V	
DC Voltage		12V	
Inlet Battery		12V, 2Ah	
Oxygen Inlet		Pressurized Oxygen (0.28~0.6 MPa medical oxygen)	

Standard Accessories

 Ventilator - 1 unit; Breath Circuit - 1pc; Breath Value - 1pc; Oxygen Pressure Reducer (for normal oxygen cylinder) - 1pc; Mask - 1pc; Hand Book - 1pc; Battery (can be used for 8 hours) - 1pc; Charger - 1pc; Flesh - 1pc; CD for operation - 1pc



PV-3100C Portable Ventilator



>> Technical Specifications

• Physical Specifications

Dimension: Width 300mm, Depth 160mm, Height 230mm, Weight 3Kg Carrying Packages Dimension: Width 460mm, Depth 200mm, Height 400mm, Weight 7Kg Packaging Dimension: Width 620mm, Depth 240mm, Height 410mm, Weight 11Kg

- Storage/Shipping Requirements
 Temperature: -20 to 70°C
 Relative Humidity less than 93%
 The atmosphere pressure: 70 to 106 kPa
- Operating Requirements
 Temperature: 5 to 40°C
 Relative Humidity less than 80%
 The atmosphere pressure: 70 to 106 kPa
- Electrical Specifications
 Input Voltage Requirements: AC Voltage 110V~240V; DC Voltage 12V
 Inlet Battery: 12V, 2Ah (Can be used for 8 hours)
 Frequency: 50Hz/60Hz
 Power: 2A



- Pneumatic Specifications
 Pressurized Oxygen: 0.4MPa medical oxygen inlet or use 2L oxygen cylinder (Choice of suppliers)
- Performance Specifications
 Power: ON/OFF
 Modes: CMV(IPPV), A/C(SIPPV), SIMV, SPONT, PEEP (Choice of suppliers)
 Tidal Volume: 50~1200ml
 Breath Rate: 5~60 bpm
 PEEP: 0~2kPa
 O2%: 45~90%
 Sigh: 1~10 per 100 breath
 Peep: 10-60hpa (Choice of suppliers)
 Trigger Level: -10 ~ 0hpa
 Over Pressure Relief: <6kpa
- Alarms and Indicators
 High Pressure Alarm Limit: 2~6kpa flash, red indicator
 Low Pressure Alarm Limit: 0. 2~2kpa Red indicator
 Alarm Silence: 120sec
- Standard Accessories Ventilator 1unit Oxygen Cylinder 1pcs (2.5L can be used for 1 hour) **Breath Circuit** 1pcs (1.2m) **Carrying Package** 1pcs (all parts in it) **Breath Value** 1pcs Mask 1pcs Charger 1pcs **Battery** 1pcs (can be used for 8 hours) Wrench 1pcs **Oxygen Pressure Reducer** 1pcs (for Normal Oxygen Cylinder) Lung Simulators 1pcs Hand Book 1pcs **CD** For Operation 1pcs

Scope of Medical Ventilator



For First Aid



For Ambulance



For Transport





PV-3100D Portable Ventilator



Introduction

- Used for First-Aid, Ambulance, Emergency and patients transport in hospital, this medical ventilator can be used for pediatric and adult patients.
- A button operation, it is simple to use with digital control and precise parameters, and contains special self-test function to ensure the patient's safe.
- This medical ventilator consists of ventilators, 2L Aluminum Oxygen Cylinder, Breathe Circuit, Carrying Package, Special Bracket for ambulance and pressure reducing valve for large oxygen cylinder, etc.

>> Technical Specifications

PARAMETER	SPECIFICATION			
Modes	C, A/C, SIMV, SIGH, CPAP, PEEP			
Tidal Volume		502000ml	Remark Preci Adjusta	
Respiratory Rate		1100bpm		
O ₂ %		45100%		Digital Precise Adjustable
Trigger Level	Range	-200hpa		
Peak Pressure		060hPa		
PEEP		020hPa		
SIGH		110 times per 100 breath		
MONITOR				
Large LCD Screen Data Display	Tidal Volume, O2%, Sigh, Respiratory Rate, Flow, Pressure (Synchronized Trigger, Peak Airway, CPAP, PEEP)			

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	Airway Pressure Time Waveform Display		
Alarm Data Display	High/Low Airway Pressure Alarm, Lack of Gas/Power Alarm, Parameter Error		
Other Display	Lock, Charge Indicator, Inspiratory/Expiratory Situation, DC/AC Power Supply		
SPECIAL SELF-TEST			
Circuit Connect Prompt	Remind the operator to connect the breath circuit correctly to access the using state		
Sound Alarm Test	Test sound alarm, to guarantee the reliability using.		
Gas Pressure Test	Test gas pressure,		
Gas Flessule Test	remind operator to ensure the gas pressure supply.		
Internal Battery Capacity Test	Test the capacity of the internal battery		
Circuit Leakage Test	Test Circuit Leakage, to lest circuit drop off or leak and unexpected situation to happen		
ALARMS			
High Airway Pressure			
Low Airway Pressure			
Low Battery Voltage Alarm			
Low Gas Pressure			
Parameter Error			
Parameter Error			









Technical Specifications

PARAMETER	SPECIF	SPECIFICATION	
Display Mode	High-definition 5.7" LCD screen display		
Ventilation Mode	IPPV, SIPPV, SIMV, PEEP, MANUAL, SIGH		
	Tidal Volume	50~1500ml	
	Rate	2~99bpm	
	SIMV Rate	2~20bpm	
Ventilation Parameters	I:E	2:1~1:8	
	PEEP	0~2.0kPa	
	Pressure Range	1.0~6.0kPa	
	SIGH	1.5 times the inspiratory time	
Parameters for Ventilation Monitoring	Tidal volume, ventilation volume, IPPV rate, SIMV rat total respiratory rate, I/E, peak pressure of airway, press time waveform, flow rate – time waveform, PEEP, inspiratory trigger pressure.		
Power	AC 220V±10% 50Hz±1Hz; UPS, Storage batter		
	Mechanical Arms		
SECURITY ALARM SY	STEM		
Power Alarm			
Airway Pressure Alarm	Upper Limit Setting Range	1.0~6.0kPa	
Allway Flessure Alalin	Low Limit Setting Range	0.4~2.0kPa	
Per-minute Ventilation	Upper Limit Setting Range	3.0~30L/min	
Volume Alarm	Low Limit Setting Range	1.0~10L/min	
Sustained High- pressure Alarm	It will give alarm when stress have consistently been higher than 2.5kPa.		
Suffocation Alarm	It will give sound and light alarm if there is no tidal volume input for 15 seconds.		

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IV-3200Y Infant Ventilator



Introduction

IV-3200Y ventilator is a new-type of pneumatic-driven and electronic-controlled ventilator which is designed to meet the special needs of clinical respiratory management and respiratory therapy for infants and children with respiratory disorders. With the feature of innovative functions, convenient operation, less gas consumption, compact but reasonable structure, and outstanding safety and reliability, it is an indispensable instrument in emergency and ICU rooms, and an essential tool to rescue the life of infants and children. IV-3200Y ventilator can work with some innovative ventilation modes, e.g., constant flow mode, pressure limit mode and time cycle ventilation mode, and also supports PEEP and IMV functions.

>> Technical Specifications



PARAMETER	SPECIFICATION	
Working Mode (Ventilation Mode)	Controlled Mechanical Ventilation (CMV), Intermittent Mandatory Ventilation (IMV), Continuous Positive Airway Pressure (CPAP), Manual Ventilation (Manual).	
Inspiratory to Expiratory Ratio	1:1~1:3	
Special Order I:E Range	10:1~1:9.9	
Inspiratory Flow	3 L/min~20 L/min	
Tidal Volume Minimum	10 mL~300 mL	
Minute Volume	Max. Ventilation volume greater than 5 L/min	
Oxygen Concentration of Output Gas	21%~100%	
Ventilator System Compliance	Not greater than 3×10-2 mL/Pa	
Positive End-Expiratory Pressure (PEEP)	Ok	⟨Pa~2.0kPa
Inhalation Safety Valve	Safety valve shall be opened when the airway pressure is within -300 Pa ~ -800 Pa	
Inspiratory Pressure	1kPa~9kPa	
Inspiratory Time	0.2s~3.0s	
Sunchronous Trigger	Pressure Trigger	-1.0~0kPa (Special Order)
Synchronous Trigger	Flow Trigger	0~10L (Special Order)
Maximum Safe Pressure	Not greater than 10kPa	
Continuous Positive Airway Pressure (CPAP)	0kPa~2.0kPa	
Monitoring Tidal Volume	Real-time monitoring within the adjustment range of tidal volume: <100 mL: ±10 mL; ≥100 mL: ±15 %;	
Monitoring Oxygen Concentration	21%~100%	
Power Failure Alarm	Audible alarm sounds immediately in case of power outage and lasts at least for 120s	
Gas Source Failure Alarm	Audible and visual alarm sounds within 6s after gas source interruption occurs and lasts at least for 120s	
Airway Pressure Lower Limit Alarm Range	PEEP +0.2kPa	
Airway Pressure Upper Limit Alarm Range	Inspiratory pressure +0.4 kPa	

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CPAP-3200D Infant CPAP System



>> Application

Continuous Positive Airway Pressure (CPAP) nurtures and supports infant breathing by providing respiratory support throughout the respiratory cycle.

CPAP System maintains the infant's functional residual capacity by helping to prevent airway closure.

The CPAP-3200D System has the advantages of compact device, small footprint, saving energy and integrated high-performance in operation. This makes it an ideal companion for your smallest patients in the Neonatal Intensive Care Units (NICU), emergency ward, delivery room and other departments.

Trust Points

- Mobility for intrahospital transport : easy to move with 5 wheels, easy to stop with three brakes in front casters.
- Flexible configurations to suit your needs.
- Flexible configurations to suit your needs.
- International standard and advanced technology suitable for all baby patient around the world.



Features

- Integration breathing circuit design, ensure easy operating and keep tidy.
- Built-in air and oxygen blender ensure stable oxygen concentration.
- Reliable CPAP control valve and pressure monitoring system improve CPAP adjustment precision.

bb Safety

- Two wheels with brake, ensure stable operating.
- Pressure meter and flow meter ensure accurate adjusting of parameters.









Pressure gauge

>> Technical Specifications

PARAMETER	SPECIFICATION	
Inspiratory oxygen concentration	Adjusting range: 21% - 100%	
CPAP	Adjusting range: 0cmH2O - 10cmH2O	
Continuous flow	Adjusting range: 1.5L/min - 15L/min	
Gas source	O2, Air	
Pressure	280kPa~600kPa	
Wooden case packing size (main component)	L 700*W 710*H 380mm	
G.W.	35KG	
N.W.	17.7KG	
Wooden case packing size (Trolley)	L 160*W 195*H 1100mm	
G.W.	6.7KG	
N.W.	2KG	
Total CBM	0.7m³	

Regulatory compliances



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2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

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