

Qtec 450 Adv. ANESTHESIA MACHINE



General Specifications

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|------------------------|---|
| Dimensions (H x W x D) | 132 cm x 100 cm x 75 cm |
| Weight | 114 kg (with 2 PA-I vaporizers attached) |
| Power | 220-240 V, 50-60 Hz (well grounded) |
| Backup power | At least 30 minutes, nominally between 2 to 4 hours |
| Display | 10.4 inch TFT display |

Ventilator

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| Drive method | Pneumatically driven & electronically controlled, closed, semi-closed and semi-open |
| Tidal volume | Adjustable range: 20-1500 ml, Display range: 0-2000 ml |
| Respiratory rate | 1-100 bpm |
| Operating modes | Manual, Standby, Intermittent Positive Pressure Ventilation (IPPV), Synchronized Intermittent Positive Pressure Ventilation (SIPPV), Volume Controlled Ventilation (VCV), Intermittent Mandatory Ventilation (IMV), Synchronized Intermittent Mandatory Ventilation (SIMV), Pressure Control Ventilation (PCV) |
| Pressure control range | 5-70 hPa |
| Trigger Sensitivity | Flow: 1-30 L/min, Pressure: -10-10 cmH ₂ O |
| SIMV Rate | 1-20 bpm |
| Inspiration/Expiration ratio (I:E) | 8:1:1:10 (capable of inverse ratio ventilation) |
| Inspiratory time | 0-2 s |
| Inspiratory plateau | 0-1 s |
| Electronic PEEP | 0-20 cmH ₂ O |
| Sigh function | 1 sigh breath in every 80-120 breaths |

Gas System

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| Flowmeter | O ₂ : 0.1-10 L/min, N ₂ O: 0.1-10 L/min, AIR: 0.1-10 L/min |
| Fresh-gas flow | 0-10 L/min |
| Gas supply | O ₂ , N ₂ O, AIR: 0.32-0.6 Mpa |
| O ₂ flush | 25-75 L/min |
| Anesthesia Gas Scavenging System (AGSS) | Optional |

Other Specifications

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|-------------------------|--|
| Monitoring | Monitorable parameters: Minute Volume (MV), Tidal Volume (VT), breathing frequency, peak pressure, PEEP, spontaneous inspiration rate, airway resistance, oxygen concentration, lung compliance & power supply |
| Alarm | Audible and/or visual alarms for tidal volume, airway pressure, oxygen concentration, asphyxia, power failure, oxygen failure & more, also features a alarm query function |
| Vaporizers | 1-2 Q series (Selectatec® compatible) vaporizer mounts |
| Vaporizer concentration | 0-5 % |
| Absorber volume | 1.5 L |



Qtec 450 Adv. ANESTHESIA MACHINE

Superior Anesthesia From Experience



Support

Diligence

Proficiency

Promoting Excellence Through Design

Built from nonhazardous environmentally friendly material, the precisely constructed and elegantly designed Qtec 450 Adv. provides an ergonomic and easily movable anesthesia machine that requires only the bare minimum of operating space.

Premium performance for less

Cost-effective anesthesia therapy is a critical component of modern healthcare delivery, so why settle when you can have more for less?



At Qtec Medical, we recognize the crucial role that anesthesia delivery plays in the complex world of modern healthcare. We understand there are numerous challenges ranging from raising patient throughput, medicinal shortages, cost overruns and the need to keep abreast of developments in an evolving discipline.

Thus, the need to achieve an efficient yet cost-effective method for anesthesia delivery has become a growing concern in many clinics, hospitals and other medical establishments around the world. This is why finding a solution that strikes the right balance between price & performance requires both expertise and experience.

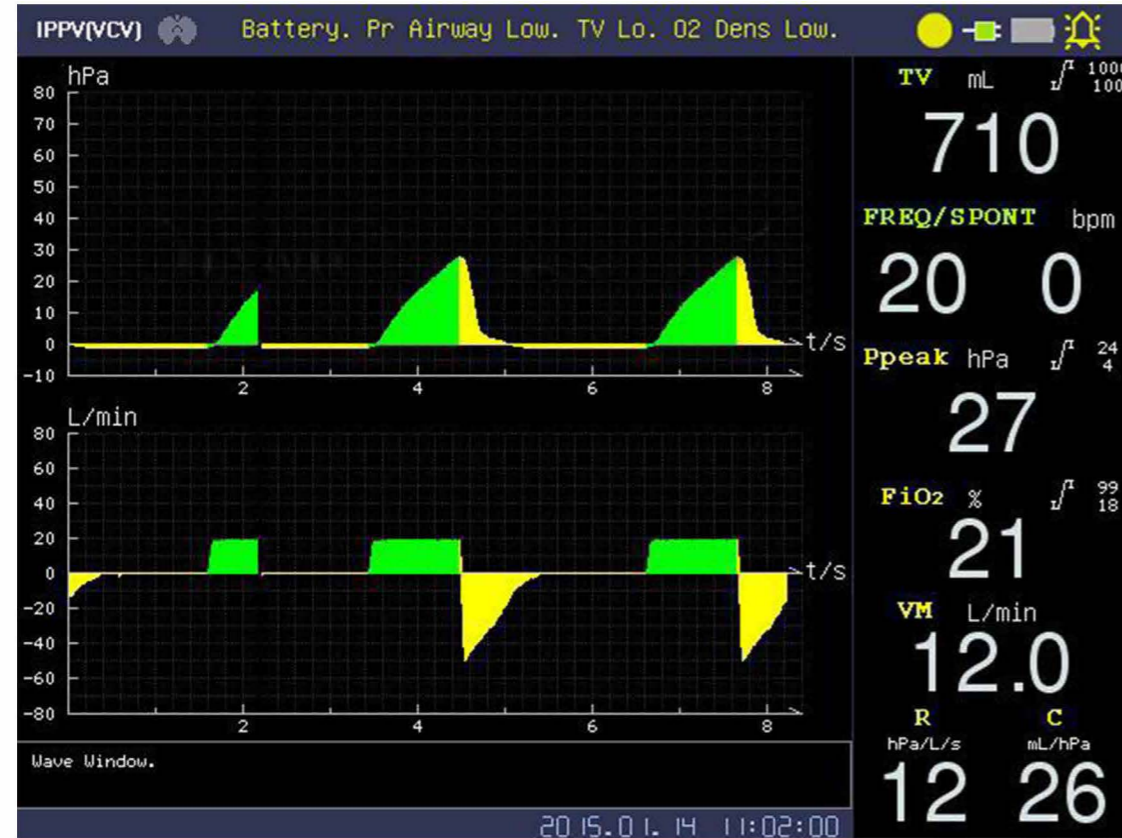
With over 40 years of experience designing, developing and manufacturing anesthesia ventilation equipment, Qtec Medical has that expertise, we understand your challenges and we created the Qtec 450 Adv. anesthesia machine specifically to meet your surgical needs.



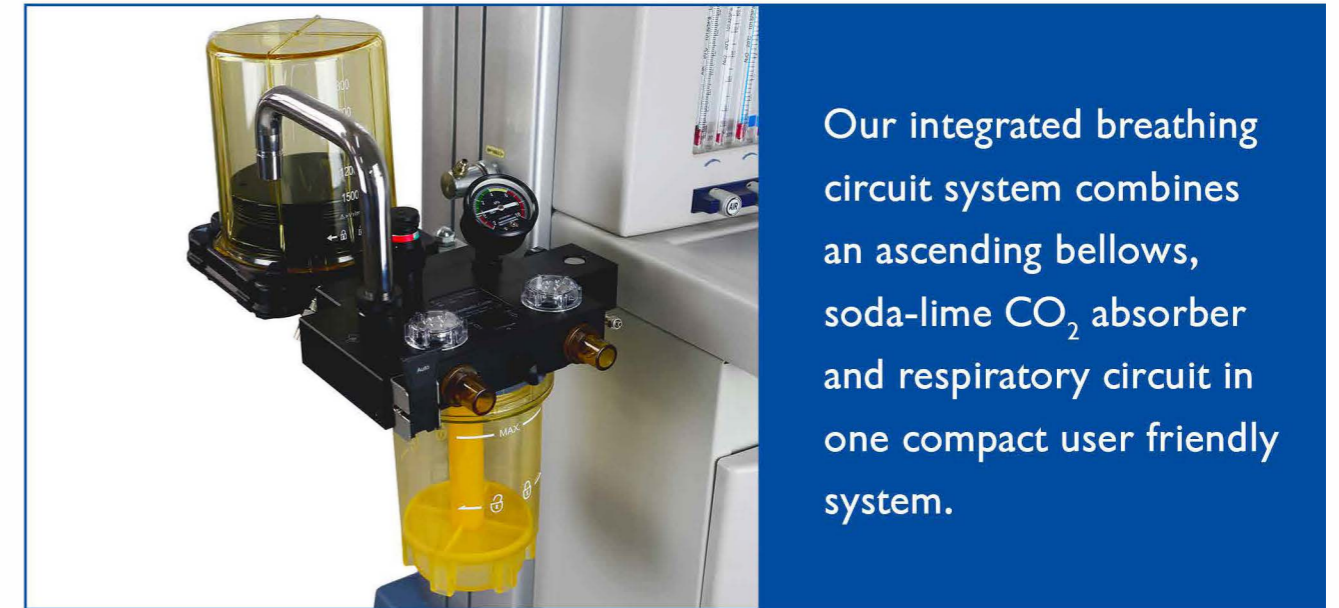
- | | |
|---|---|
| 1 Adjustable 15" series multi-parameter patient monitor (optional) | 6 Gas pressure display gauges |
| 2 Built-in high visibility 10.4 inch TFT color display | 7 Oxygen flush release |
| 3 2 Selectatec® compatible anesthetic vaporizer slots | 8 Anesthetic breathing circuit system with attached bellows & soda lime tank |
| 4 Durable ergonomic handle for easy maneuverability | 9 2 large multipurpose drawers |
| 5 Integrated high precision 5 tube flowmeter | 10 Swivel wheels with caster contact brakes |

Comprehension At A Glance

The built-in 10.4 inch TFT color display offers a simple and convenient method for users to view detailed relevant patient status information in a timely and easily accessible manner.



Breathing Made Simple

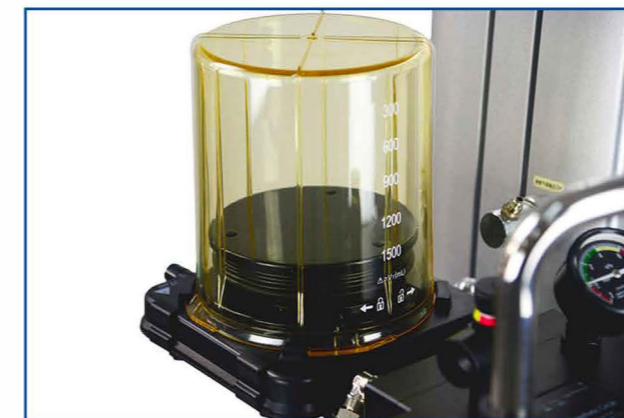


Our integrated breathing circuit system combines an ascending bellows, soda-lime CO₂ absorber and respiratory circuit in one compact user friendly system.

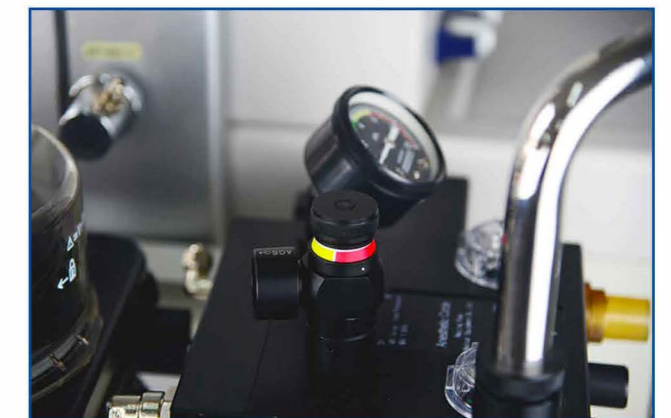


Metallic modular circuit platform, tolerates high temperature disinfection, simple to mount, clean and disassemble.

Imported PPSU rotating soda-lime CO₂ absorber tank, very easy to operate and temperature resistant to 134°C.



Detachable contamination mitigating ascending bellows system, available in adult, pediatric & neonatal sizes.



Adjustable Pressure Limiting (APL) valve, designed for low-flow and ultra low-flow anesthesia therapy.



ICU quality ventilation

The Qtec 450 patented ventilator technology to deliver versatile proven high quality ventilation performance. Available ventilation modes include Pressure Control Ventilation (PCV), Volume Controlled Ventilation (VCV), Intermittent Mandatory Ventilation (IMV/SIMV) & more.



Real time status indication

In the medical environment, it's often critical to stay abreast of changes and developments in information. This is why we created a display system for the Qtec 450, that succinctly and clearly provides real time notifications on the status of the patient, the alarms, the ventilation process and the anesthesia machine itself.



Intuitive UI display

The trimmed down intuitive user interface of the Qtec 450 designed with accessibility and convenience in mind, allows users to effortlessly toggle between patient parameters, system settings, Pressure-Time, Flow-Time, Pressure-Volume and Flow-Volume waveforms at the touch of a button.

Features You Can Relay On

Anesthetic vaporizer mounts

2 Selectatec® compatible slots for Qtec Medical's locally assembled self-compensating imported anesthetic vaporizers.



High precision flowmeter

Built-in 5 tube flowmeter fitted with interlocking O₂-N₂O supply, guarantees oxygen output never falls below 21%.

Compact mobile design

The ergonomic lightweight frame and lockable wheel arrangement allows for a superior economy of motion.



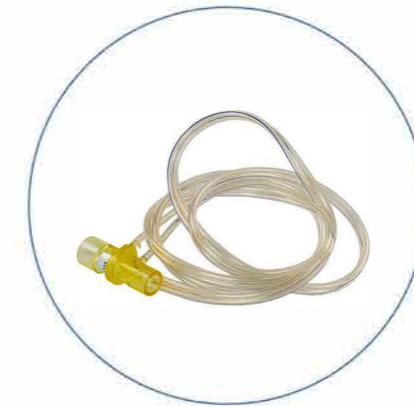
Accessories & Other Components

Aside from its core components, the Qtec 450 Adv. also features an automated startup self-checking function, can reflexively convert to backup power mode during outages and comes equipped with an automatic self-calibrating sensor as well as an imported respiratory control valve for added efficiency.



Q Series Vaporizers

Available in enflurane, isoflurane, sevoflurane & halothane.



Electronic Flow Sensor

Promotes more reliable, stable and rapid gas flow response times.



PDJ Series Patient Monitor

Mounted adjustable multi-parameter patient monitor (optional).



Medical Oxygen Sensor

Sturdy precision sensor for quick & accurate oxygen concentration readings.



Clear Anesthesia Masks

Comfortable lightweight reusable anesthesia masks, available in all sizes.



Breathing Circuit Tubes

Reusable breathing circuit tubes, available in adult, pediatric & neonatal lengths.

The Jinling 850 Adv. also includes a broad selection of other accessories for you to choose from:

- Manual breathing bag
- Color gas connecting tubes
- Oxygen regulator
- Power cords
- Disposable anesthesia masks
- Disposable circuit tubes
- Adult bellows
- Pediatric bellows
- Patient monitor support arm
- Swivel wheel with brakes
- Swivel wheel without brakes
- Battery