



# ES-3800A

Anaesthesia machine



OPERATING THEATRE



# ES-3800A

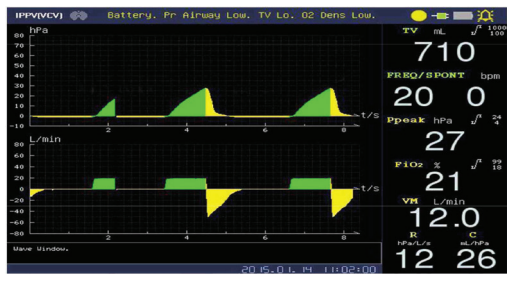
## Anesthesia Machine

### Promoting excellence throught design



- 1 - Built-in high visibility 8.4 inch TFT color display
- 2 - 2 Selectatec compatible anesthetic vaporizer slots
- 3 - Durable ergonomic handle for easy maneuverability
- 4 - Integrated high precision 5 tube flowmeter
- 5 - Gas pressure display gauges
- 6 - Oxygen flush release
- 7 - Anesthetic breathing circuit system with attached bellows and soda lime tank
- 8 - 2 Large multipurpose drawers
- 9 - Swivel wheels with caster contact brakes

### Comprehension at a glance

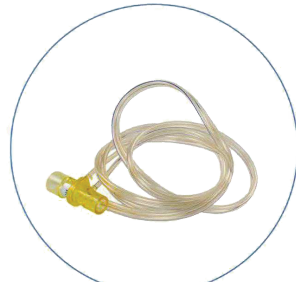


The built-in 8.4 inch TFT color display offers a simple and convenient method for users to view detailed relevant patient status information in a timely and easily accessible manner.

### Accessories and other components



Available en enflurane, isoflurane, sevoflurane & halothane



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



Mounted adjustable multi-parameter patient monitor (optional)



Sturdy precision sensor for quick & accurate oxygen concentration reading



Comfortable lightweight reusable anesthesia masks, available in all sizes.



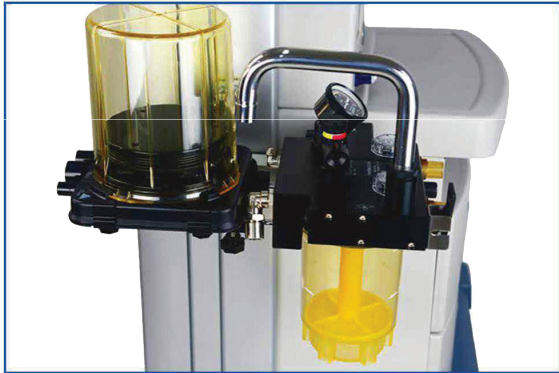
Reusable breathing circuit tubes, available adult, pediatric & neonatal lengths.

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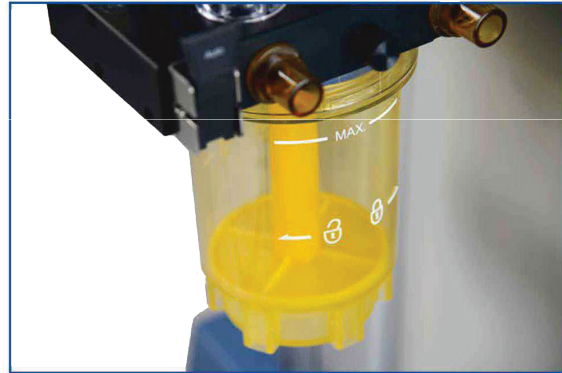
Anesthesia Machine



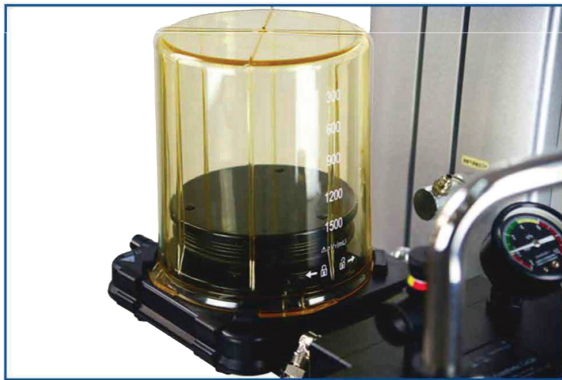
## Breathing made simple



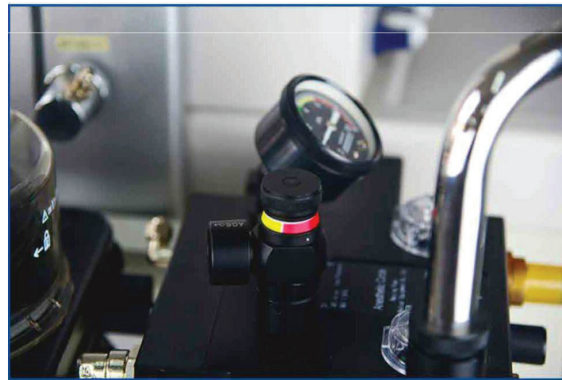
Metallic modular circuit platform, tolerates high temperature disinfection, simple to mount, clean and disassemble.



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



Detachable contamination mitigating ascending bellows system, available in adult, pediatric and neonatal size.



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



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



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





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## Anesthesia Machine

### General Specifications

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	8.4 inch TFT display

### Ventilator

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 range	5-70 hPa
Trigger Sensitivity	Flow: 1-30 L/min, Pressure: -10-10 cmH <sub>2</sub> 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 <sub>2</sub> O
Sigh function	1 sigh breath in every 80-120 breaths

### Gas System

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

### Other Specifications

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 PA series (Selectatec® compatible) vaporizer mounts
Vaporizer concentration	0-5 %
Absorber volume	1.5 L



ESSE3 srl, Via Garibaldi 30  
14022 Castelnuovo D.B. (AT)  
Tel +39 011 99 27 706  
Fax +39 011 99 27 506  
e-mail [esse3@chierinet.it](mailto:esse3@chierinet.it)  
web: [www.esse3.dreamgest.com](http://www.esse3.dreamgest.com)

