

ELITE 215

Compact Anesthesia Machine



The BREATH of LIFE



Salient Features

- Complete rust proof Stainless steel frame structure.
- Pneumatic Oxygen failure alarm and N₂O cut off system.
- Lever operated Anti-Hypoxic device.
- Goldman Vaporizer or Selectatec Type mount bar.
- Emergency oxygen flush button.
- Large SS drawer and castor wheels.

** Picture is an illustration. Refer Standard features for actual configuration*

ELITE 215

Compact Anesthesia Machine

The BREATH of LIFE

Basic Configuration

- "ELITE 215" with one O₂ and one N₂O cylinder mounting with 2 Tube Rotameter.

Standard Features

Physical

- Machine Size 460x780x1360mm (WxDxH)
- Weight ~65 Kgs.

Functional

- Colour coded ring indexed pipeline fittings.
- Pin Indexed Yoke for one O₂ and N₂O cylinder.
- Individual gauges for Pipeline and Cylinder inlet gas monitoring.
- 2 Tube Rotameter.
- NRV on Back bar for Vaporizer protection.
- Common gas outlets with O₂ flush.
- Over pressure Blow-off Valve (set at 50cm H₂O) for Patient safety.
- Pneumatic O₂ failure alarm with N₂O cut-off.
- Audible alarm for O₂ failure.
- Colour coded gas supply hoses for O₂, N₂O.
- Auxiliary O₂ Outlet.
- Single large Drawer and Top tray for monitor.

Optional

- Both Selectatec and Goldman Vaporizer.
- Three Tube Rotameter.
- Scavenging system.
- CO₂ Absorber system.
- MRI Compatible version.

NOTE

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ELITE 415

Anesthesia Machine



The BREATH of LIFE



A Continuous Flow Anesthesia System ideally suited for any theatre

Salient Features

- Complete rust proof Stainless steel frame structure with antistatic castor wheels.
- Provision to mount 2 O₂ and 2 N₂O cylinders.
- Pneumatic Oxygen failure alarm and N₂O cut off system.
- Lever operated Anti-Hypoxic device.
- Dual Selectatec Type vapouriser mounting.
- Patient block with change over switch and emergency oxygen flush button.
- SS drawer and Monitor shelf.

** Picture is an illustration. Refer Standard features for actual configuration*

ELITE 415

Anesthesia Machine

The BREATH of LIFE

Basic Configuration

- "ELITE 415" with two O₂ and two N₂O cylinder mounting and 2 Tube Rotameter.

Standard Features

Physical

- Machine Size 600x780x1385mm (WxDxH)
- Weight ~85 Kgs.

Functional

- Colour coded ring indexed pipeline fittings.
- Pin Indexed Yoke for two O₂ and two N₂O cylinders.
- Individual gauges for Pipeline and Cylinder inlet gas monitoring.
- 2 Tube Rotameter with fluroscent back cover for better illuminance.
- Dual Selectatec type inter-lock mounting for 2 Vaporizer inline.
- NRV on Back bar for Vaporizer protection.
- Patient block with changeover switch.
- Common gas outlets with O₂ flush.
- Over pressure Blow-off Valve (set at 50cm H₂O) for Patient safety.
- Pneumatic O₂ failure alarm with N₂O cut-off.
- Audible Alarm for O₂ failure.
- Additional reservoir for O₂ storage.
- Colour coded gas supply hoses for O₂, N₂O.
- Auxiliary O₂ Outlet.
- SS Drawer and Top tray for monitor.
- Trolley system with antistatic castors.

Optional Configuration

- 3 gas system.
- Both Selectatec and Goldman Vaporizer mounting.

Optional Features

- Visual alarm for Oxygen failure.
- Scavenging system.
- CO₂ Absorber system.
- Anesthesia Ventilator system.

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ELITE 615

Anesthesia Machine



The BREATH of LIFE



Salient Features

- Complete rust proof Stainless steel frame structure with antistatic castor wheels.
- Pneumatic Oxygen failure alarm and N₂O cut off system.
- Lever operated Anti-Hypoxic device.
- Dual Selectatec Type Vaporizer mount bar.
- Movable patient block with emergency oxygen flush button.
- SS drawers and Monitor shelf.

** Picture is an illustration. Refer Standard features for actual configuration*

ELITE 615

Anesthesia Machine

The BREATH of LIFE

Basic Configuration

- "ELITE 615" with two O₂ and one N₂O cylinder mounting and 3 Tube Rotameter.

Standard Features.....

Physical

- Machine Size 690x860x1395mm (WxDxH)
- Weight 80 Kgs.

Functional

- Colour coded ring indexed pipeline fittings.
- Pin Indexed Yoke for two O₂ and one N₂O cylinders.
- Individual gauges for Pipeline and Cylinder inlet gas monitoring.
- 3 Tube Rotameter.
- Dual Selectatec type inter-lock mounting for 2 Vaporizer in line.
- NRV on Back bar for Vaporizer protection.
- Movable patient block.
- Common gas outlets with O₂ flush.
- Over pressure Blow-off Valve (set at 50cm H₂O) for Patient safety.
- Pneumatic O₂ failure alarm with N₂O cut-off.
- Audio alarm for O₂ failure.
- Additional reservoir for O₂ storage.
- Colour coded gas supply hoses for O₂, N₂O and Air.
- Auxiliary O₂ Outlet.
- SS Drawers and Top tray for monitor.

Optional

- Two O₂ and Two N₂O cylinders with 5 Tube Rotameter.
- Both Selectatec and Goldman Vaporizer mount bar.
- Active Scavenging system.
- CO₂ Absorber system.
- Anesthesia Ventilator system
- MRI compatible version.

Quality Standards Met

- Tested as per ISO 5358:1992 standard.
- CE certified.

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ELITE 915

Anesthesia Delivery System



The BREATH of LIFE



A Continuous Flow Anesthesia System ideally suited for any theatre

* Picture is an illustration. Refer Standard features for actual configuration

Avasarala Technologies Limited

An ISO 9001:2015 and EN ISO 13485:2016 Certified Company

ELITE 915

Anesthesia Delivery System

The BREATH of LIFE

Anesthesia System's Salient Features

- Complete integration of Anesthesia system, built-in ventilator and CO₂ Absorber
- Stainless Steel, Aluminum frame body & Dual drawer storage unit with work tray
- Colour coded ring indexed pipeline connections
- Pin indexed yoke for two O₂ & one N₂O cylinders
- Anti Hypoxic Device with lever mechanism to prevent flows of less than 21% of Oxygen & 1:3 ratio conformity
- Five tube Rotameter for O₂, N₂O and Air with back light
- Dual Selectatec Vaporizer mount
- Non-Return valve on Back Bar to protect vaporizer
- Patient Block with 22m / 15f mm Common gas outlet
- Emergency O₂ flush button & patient safety blow off valve at 50 cm of H₂O
- Pneumatic Oxygen failure alarm with N₂O cut-off mechanism
- O₂ reservoir storage backup & Auxillary O₂ outlet
- CO₂ Absorber with dual canister, canister bypass switch, bellows assembly, Auto / Manual ventilation switch and Manometer.
- Scavenging System



Ventilator's Salient Features

- Electronically controlled and pneumatically driven Anaesthesia Ventilator
- Suitable for Adult & Paediatric by only changing the Canister
- Pressure Controlled Ventilator and Volume limit function with Tidal Volume display.
- 5.0" TFT Display with P Vs T, V Vs T graph
- Built in PEEP
- Single knob control with feather touch buttons
- FiO₂ Monitoring



Power

Input Power	220/240VAC 50Hz 60 mA
Battery Back-up	7.4V, 2.6 AH, Li-Ion, 3+ hours
Drive Gas	Medical grade Oxygen or Air (dry and oil free) at 45 to 80 psi (310 to 550 Kpa)

Display

Display parameters	Pressure Vs Time, Volume Vs Time, Expiratory Tidal Volume (V _T), Airway Pressure (Paw), O ₂ concentration (%) Battery status and Alarms
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Functional

Tidal Volume	
Adult bellows	100 to 1600 ml
Pediatric Bellows	25 to 350 ml (Optional)
Rate	4 - 99 bpm
I:E Ratio	1:0.5 - 1:9
Inspiratory Pressure	4 - 60 cm H ₂ O
PEEP	4 - 20 cm H ₂ O

Alarms

Visual and Audible alarm for High and Low TV, Low and High O₂ concentration, Patient Disconnection, High Pressure, Low Pressure, Low Drive Gas & Low Battery

Optional Features

- Pediatric Bellows Assembly
- Selector switch to select O₂ or Air as Ventilator drive gas

WARNING

The equipment must only be used by qualified personnel, in accordance with the instructions of the manufacturer, as specified in the User Manual and should be serviced and maintained by the authorized service personnel. For Optimal use, this equipment may be used in conjunction with other related products.

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ELITE 918

Anesthesia Delivery System



The BREATH of LIFE



* Picture is an illustration. Refer Standard features for actual configuration

Salient Features

- Complete Anesthesia Delivery System, inbuilt Ventilator, CO₂ Absorber and Vapouriser (Optional)
- 3 gas system with separate gauges for monitoring pipeline and cylinder gases.
- 5 Tube Rotameter with back-light.
- In line dual Selectatec inter-lock mounting bar with Non-Return Valve.
- Common Gas outlet with O₂ flush.
- Over Pressure Blow-off valve for patient safety.
- Pneumatic On / Off Switch for complete System shut down.
- Pneumatic Audio Visual O₂ failure alarm System.
- Auxiliary O₂ outlet.
- Drawer with easy to clean Thermo form tubs.
- Circle Absorber with dual canister and Circle by-pass switch.
- Manual / Ventilation changeover switch.
- Patient Airway pressure monitoring manometer.
- Option to select O₂ or Air as ventilator drive gas.

ELITE 918

Anesthesia Delivery System

The BREATH of LIFE

Salient Features

- Fully Indigenously made Electronically controlled, pneumatically driven Ventilator with feather touch Keys and Control knob for user-friendly Operations.
- 7.0" TFT Display
- Volume Control (VCV), Pressure Control (PCV) and Spontaneous Modes
- FiO₂ Monitoring
- Electronic PEEP
- Waveforms for Pressure vs. Time and Volume vs. Time
- Compliance, Leak Test, Waveform freeze and Inspiratory pause facilities



Physical

Screen Size	178mm (7.0") TFT	Power	200-240VAC, 50-60Hz, 0.3A max
Bellows (Latex free)	Adult Bellows - 20 to 1600 ml Paediatric option - 20 to 350 ml	Battery Backup	2+ hours (on full charge)
		Drive Gas	Oxygen or Air (Dry, Oil free) at 45 to 100 PSI (310 to 690 Kpa)

Functional

Tidal Volume (VT)	20 to 1600 ml	Oxygen Monitor	Fuel Cell type (21% and 100%)
Breath Rate (BPM)	4 to 99 BPM	Ventilator Performance accuracy of delivered volumes	
IE ratio	1:0.5 to 1:9		< 100 ml : $\pm 50\%$ 100 to 300 ml: $\pm 20\%$ > 300 ml: $\pm 10\%$
Inspiratory Pressure	4 to 60 cmH ₂ O	Display parameters	Delivered Tidal Volume, Airway Pressure, FiO ₂ %, Battery Status, Alarms
Electronic PEEP	4 to 20 cmH ₂ O	Alarms	High and Low TV, Low and High O ₂ concentration, Patient disconnection, High AW Pressure, Mains failure, Low battery and Low Drive gas
Modes	Standby Volume Controlled Pressure Controlled Spontaneous	Alarms-User Adjustable	Low and High Tidal Volume, Low and High O ₂ concentration
Spontaneous Mode	Active Volume and Pressure Alarms	Optional	Digital Flow meter Assembly
Fresh Gas Compensation	Automatic Tidal Volume adjustment		
Inspiratory Pause (does not affect IE ratio)	25% of Insp. Time		

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EM-VENT

Emergency Ventilator



The BREATH of LIFE



Salient Features

- Compact lightweight Transport / Portable / Emergency Ventilator.
- Time cycled ventilator with Preset Pressure and Volume.
- Works on AC, DC and in-built rechargeable battery.
- FiO₂ setting for 50 and 100%.
- Battery back-up for min of 10hrs on full charge.

* Picture is an illustration. Refer standard features for actual configuration

EM-VENT

Emergency Ventilator

The BREATH of LIFE

EM Vent

- EM Vent Electronic Emergency / Transport Ventilator suitable to Ventilate Critical / Care Patients

Standard Features

Physical

Size 275x240x160 mm (WxDxH)
(w/o handle)

Weight ~ 4.1 Kgs

Power

Input Power 220/240VAC 50Hz 60 mA or 12V
DC

Battery Back-up ~ 10 hours (on Full charge)

Drive Gas Medical grade Oxygen or Air
(dry and oil free) at 200 to 600
Kpa.

Functional

Minute Volume 3 to 20 L/ min

Modes CMV, PCV
SIPPV (Pressure support)
Stand By

Rate 4 - 60 bpm

I:E Ratio 1: 2 fixed for CMV mode Variable
I-Time 0.5 to 3 seconds (in PCV /
SIPPV modes)

Pressure Trigger - 1 to -10 cm H₂O
(SIPPV mode)

Air way Pressure limit 6 to 60 cm H₂O

Breathing gas concentration (FiO₂) Settings

On 100% selection 100% O₂

On 50% selection 50% O₂ & 50% Air

Gas consumption For MV only

Typical usage (with C type cylinder @ 10/MV)

On No MIX 45 minutes

On MIX 2 hr 20 min

Displays

LCD Display size 70x35mm

Display parameters

In CMV/PCV mode O₂%, PAWP, BPM, Pmax, Pmin

In SIPPV mode O₂%, PAWP, BPM, Pmax, Pmin,
Trigger

Controls

Knob Minute Volume

Feather keys BPM, Mix/No Mix, Pmax, Pmin,
Mode, I-Time setting

Alarms

Low Supply pressure, Set pressure not reached,
Patient Disconnection, Low Airway Pressure,
High Airway Pressure, Low Battery, Mains failure and
Very Low Battery

Standard Accessories

Power cord & DC cord

Ventilator Drive Hose

Auxiliary outlet tube

Breathing circuit

Ventilator mounting bracket

Face Mask fitted with additional regulator to protect from
high input pressure

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EV 600 Plus Ver 2.0

Anesthesia Ventilator



The BREATH of LIFE

Salient Features

- FULLY INDIGENOUSLY MADE....
- 7" Color display
- VCV ; PCV and Spontaneous Modes
- FiO₂ Monitoring
- Electronic PEEP
- Waveform display for Pressure Vs Time; Volume Vs Time
- Compliance and Leak Test

Physical

Screen Size	7" TFT
Bellows	
Adult (Latex free)	100 - 1600 ml
Paediatric	20 - 350 ml (as optional)

Functional

Tidal Volume	
Adult bellows	100 - 1600 ml
Paediatric bellows	20 to 350 ml (as optional)
Rate	4 - 99 bpm
I:E Ratio	1: 0.5 to 1:9
Inspiratory Pressure	4 - 60 cm H ₂ O
Electronic PEEP	4 - 20 cm H ₂ O
Modes	Standby Volume Controlled Pressure Controlled Spontaneous
Spontaneous Mode	Active Volume and Pressure Alarms



Battery Back-up	60 minutes (on full charge)
Drive Gas	Oxygen or Air (dry and oil free) at 45 to 100 psi (310 to 689 kPa)

Fresh Gas Compensation	Automatic Tidal Volume adjustment
Oxygen Monitor	Fuel Cell type - 21 % and 100%
Ventilator Performance	accuracy of delivered volumes >300 ml \pm 20% >100 ml <300 ml \pm 20% <100 ml \pm 50%

Alarms

Low Drive Gas Pressure, High Continuous Pressure, Low and High Airway Pressure, Mains Failure, Low Battery

Alarms - User Adjustable

Low Tidal Volume, High Tidal Volume, Low and High O₂ Concentration



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EV-600 Plus

Anaesthesia Ventilator



The BREATH of LIFE



Salient Features

- Electronically controlled and pneumatically driven Anaesthesia Ventilator.
- Suitable for Adult & Paediatric.
- Pressure controlled Ventilator with Volume **Limit function to display Expiratory Tidal Volume.**
- **5.0" TFT Display for P Vs T V Vs T waveforms.**
- **PEEP and FiO2 Monitoring facilities.**
- Single knob control with feather touch buttons.

** Picture is an illustration. Refer Standard features for actual configuration*

EV-600 Plus

Anaesthesia Ventilator

The BREATH of LIFE

EV-600 Plus

- EV-600 Plus - Pressure Controlled Ventilator with Volume Limit function to display the Expiratory Tidal Volume, suitable for Adult and Paediatric use with Single knob Control and with PEEP function.

Standard Features

Physical

Size	240x230x430 mm (WxDxH)
Weight	~ 7.7 kgs.

Power

Input Power	220/240VAC 50Hz 60 mA
Battery Back-up	~ 3 hours (on full charge)
Drive Gas	Medical grade Oxygen or Air (dry and oil free) at 45 to 80 psi (310 to 550 Kpa)

Functional

Tidal Volume	
Adult bellows	100 to 1500 ml with limit lock function.
Pediatric Bellows (Optional)	25 to 350 ml
Volume Control	Set Volume with limit control and lock position. Set Inspiratory pressure and set required time and rate Expiratory Tidal Volume Displayed
Inspiratory Pressure	4 - 60 cm H ₂ O

I:E Ratio	1:0.5 - 1:9
Rate	3 - 99 bpm
PEEP (Mechanical)	4 - 20 cm H ₂ O
FiO ₂	21% and 100%

Displays

Display	5.0 " TFT Display
Display parameters	Pressure Vs Time waveform, Volume Vs Time waveform, Expiratory Tidal Volume, Oxygen concentration (FiO ₂) Airway Pressure, Battery status and Alarms.

Alarms

Visual and Audible alarm for Patient Disconnection, High Pressure, Low Pressure, High and Low Tidal Volume, High and Low Oxygen concentration (FiO₂), Mains failure, Low Drive Gas & Low Battery

Standard Accessories

Power cord
Ventilator Drive Hose
Ventilator mounting bracket
Corrugated tube with connector
Bellow Drive Hose

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SIGNET 515

Anesthesia Delivery System



The **BREATH** of LIFE



A **COMPACT** Anesthesia Delivery System ideally suited for any theatre.

* Picture is an illustration. Refer Standard features for actual configuration

SIGNET 515

Anesthesia Delivery System

The BREATH of LIFE

Anesthesia System's Salient Features

- Complete integration of Anesthesia system built-in ventilator and CO₂ Absorber
- Stainless Steel, Aluminum frame body & drawer storage unit with work tray
- Colour coded ring indexed pipeline connections
- Pin indexed yoke for one O₂ & one N₂O cylinder
- Anti Hypoxic Device with lever mechanism to prevent flows of less than 21% of Oxygen & 1:3 ratio conformity
- Four tube Rotameter for O₂ & N₂O
- Single Selectatec Vaporizer (provision to mount standby vaporizer on side)
- Non-Return valve on Back Bar to protect vaporizer
- Patient Block with 22m / 15f mm Common gas outlet
- Emergency O₂ flush button & patient safety blow off valve at 50 cm of H₂O
- Pneumatic Oxygen failure alarm with N₂O cut-off mechanism
- O₂ reservoir storage backup & Auxillary O₂ outlet
- CO₂ Absorber with single canister, Auto / Manual ventilation switch, bellows assembly



Ventilator's Salient Features

- Electronically controlled and pneumatically driven Anaesthesia Ventilator
- Suitable for Adult & Paediatric by only changing the Canister
- Pressure Controlled Ventilator and Volume limit function with Tidal Volume display.
- 5.0" TFT Display with P Vs T, V Vs T graph
- Built in PEEP
- Single knob control with feather touch buttons
- FiO₂ Monitoring



Power

Input Power	220/240VAC 50Hz 60 mA
Battery Back-up	7.4V, 2.6 AH, Li-Ion, 3+ hours
Drive Gas	Medical grade Oxygen or Air (dry and oil free) at 45 to 80 psi (310 to 550 Kpa)

Display

Display parameters	Pressure Vs Time, Volume Vs Time, Expiratory Tidal Volume (V _T), Airway Pressure (Paw), O ₂ concentration (%) Battery status and Alarms
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Functional

Tidal Volume	
Adult bellows	100 to 1600 ml
Pediatric Bellows	25 to 350 ml (Optional)
Rate	4 - 99 bpm
I:E Ratio	1:0.5 - 1:9
Inspiratory Pressure	4 - 60 cm H ₂ O
PEEP	4 - 20 cm H ₂ O

Alarms

Visual and Audible alarm for High and Low TV, Low and High O₂ concentration, Patient Disconnection, High Pressure, Low Pressure, Low Drive Gas & Low Battery

Optional Features

- Pediatric Bellows Assembly
- Scavenging System
- Selector switch to select O₂ or Air as Ventilator drive gas
- Absorber with dual canister

WARNING

The equipment must only be used by qualified personnel, in accordance with the instructions of the manufacturer, as specified in the User Manual and should be serviced and maintained by the authorized service personnel. For Optimal use, this equipment may be used in conjunction with other related products.

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