

# ENDO



## ENDO.ANM3 Anesthesia Machine

<https://endo.id>



## Featured

- CE marked, meet EU clinical requirements
- Contemporary and ergonomic designed for ease of use
- Pull handle
- DIN rail at both side of machine allows for flexibility and ease of mounting patient monitor and other expansion medical devices
- Optional Integrated auxiliary O<sub>2</sub> flowmeter and suction control
- AGSS (Anesthesia Gas Scavenging System) is optional.
- Electronic displayed flowmeter
- Applicable to Infant, pediatric and adult.
- Driven gas can be Oxygen or Air. save running cost of Oxygen.

## Integrated CO<sub>2</sub> Absorber System

- Highly integrated design - fewer parts and connections reduces potential for leaks and mismatches.
- Ease of disassembly (no tools required).
- Ease for cleaning, autoclavable in 134°C to avoid cross-infection (except for O<sub>2</sub> sensor and gauge), latex free.
- One step bag/vent, switch turns the ventilator on/off.
- Automatic CO<sub>2</sub> absorber by-pass.
- ACGO.



## Ventilator

- 12 inch touch screen for easy review.
- Touchscreen + navigation wheel+ key pad for simple operation.
- Choose-set-confirm" to realize function and avoid mis-operation.
- One key presses to total Standby mode: end case
- Easy of use, full range ventilator with mechanical ventilation modes, spontaneous ventilation modes and electronic, support a variety of patients
- Powerful extended function: Optional plug-in anesthesia agent monitoring CO2 module, and SpO2. module. With parameters setting/display and graphic display in the screen
- World leading brands of flow sensors, differential pressure sensors, pressure regulating valves and proportional valves to ensure accurate ventilation.
- Tidal volume compensation provides accurate delivery down to 20 ml
- Smart alarm notification direct user to specific problems and affected parameters
- Pressure and volume monitoring on a breath-by-breath basis  
Audio and visual alarms with three levels.



## Vaporizers

### Anesthetic vapour delivery modules

- The highest quality and reliable vaporizer.
- Available for Halothane, Isoflurane, Enflurane and Sevoflurane.
- Service-free: Calibration every 10 years (5 years for Halothane).
- Superb performance with automatic compensation for temperature, pressure and flow.
- Selectatec compatible interlock system.

# SPECIFICATIONS

## Physical Specifications

- Dimension: L600W740 H1368 mm
- Weight: 120kg
- Screen: 12 inch TFT touch screen
- Casters: 10 cm diameter, with individual locking brakes at front casters
- Two drawers

## Electronics Specifications

- Power supply: AC100240V±10%, 50/60Hz±1%
- Battery backup: 4 hours
- Power consumption: is less than 75VA
- Top light

## Vaporizer

- Dual positions.
- Mounting: Tool-free installation Selectatec compatible with interlock.
- Agent type: Sevoflurane, Halothane, Isoflurane and Enflurane.
- Filling type: Pour-fill, Easy-fill and Quick-fill.

## Ventilator Parameters

- Patient type: Infant, pediatric and adult
- Driven mode: Pneumatically driven electronically controlled
- Ventilation mode: VCV, PCV, SIMV-V, SIMV-P, PSV, STANDBY, Manual/Spontaneous
- Tidal volume (VT): 20ml-1500ml
- Pressure (Pinspired) range: 5-70 cmH<sub>2</sub>O
- Pressure (limit): 5 - 100cmH<sub>2</sub>O
- Pressure support: 5-60 cmH<sub>2</sub>O
- Electronic PEEP: OFF, 3-39 cmH<sub>2</sub>O
- Trigger: Flow and pressure trigger.
- Frequency (f): 0-100bpm, SIMV frequency: 4-60bpm
- EE ratio: 10:1-1:1
- Inspiratory pause: 0-60% of inspiratory time
- Inspiratory time: 0.1-5.5s

## Pneumatic Specification

- Pipeline gas input: O<sub>2</sub>/N<sub>2</sub>O/AIR and supplement O<sub>2</sub> supply, input pressure: 0.28MPa-0.6MPa
- Cylinder gas input (optional): Pin indexed yokes for O<sub>2</sub>, N<sub>2</sub>O and AIR.
- Pressure gauge: 3 nos. for pipeline. 3 nos. for cylinder (Optional)
- O<sub>2</sub> controls:
- Method: Proportionate decrease of N<sub>2</sub>O with reduction in O<sub>2</sub> flow
- O<sub>2</sub> supply failure alarm: O<sub>2</sub> pressure lower than 0.14MPa
- N<sub>2</sub>O cut off: N<sub>2</sub>O cutoff with loss of O<sub>2</sub> pressure, supply failure alarm when is less than 200KPa.
- O<sub>2</sub> flush: 25-75u/min
- Auxiliary O<sub>2</sub> flowmeter: 0-15L/Min, flow tube indicator.
- Flowmeters: Electronic flow measurement with both LED display and digital display on screen
- Operational modes: Closed and Semi-closed circuit system.
- Hypoxic guard system: Mechanical type, provides a nominal minimum 25% concentration of oxygen in O<sub>2</sub>/N<sub>2</sub>O mixture
- ACG00: ISO 22 mm OD and 15 mm ID, allows for using third party's semi-open circuit
- CO<sub>2</sub> absorbent canister: Quick release type, with volume 1.5L Automatic CO<sub>2</sub> by-pass capability
- Bag/ventilation switch: switch for manual/spontaneous ventilation and mechanical ventilation.
- Integrated Adjustable Pressure Limiting (APL) valve: is less than or equal to 6KPa
- AGSS (optional): Passive Anesthetic Gas Scavenging System

## Ventilator Monitored Values

- Tidal volume (VTI & VTE): 02000 ml
- Minute volume: (100 L Breathing rate: 000 1bpm
- Ppeak: -20-100 cmH2O FiO2: 21100%
- Waveform: P-T, F-T, CO2-T (Optional).
- Loop: F-V, V-P
- Other Monitored: Pmean, PEEP, Pplat, Pmin, MVspont, Ratespont, Cdyn, SpO2 (optional), Pulse (optional), EtCO2 (optional), InCO2 (optional), N2O concentration (optional), Anesthetic agent concentration (optional), Flow of O2/N20/Air, Total flow

## Alarms

- 3 level visible audible alarm
- High & low limitation for: Pressure, Minute volume, Breathing rate, FiO2, Tidal Volume, SpO2 (optional), Pulse (optional), EtCO2 (optional),
- Apnea time, Sustained airway pressure, Alarm mute, AC off, Battery low & exhausted, Alarm log, Alarm silence

# ENDO

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