

# ENDO ICU Ventilator SH-300



*Pediatric through Adult Ventilation  
A host of impressive features  
Offer you intensive care*

**ENDO**

# ENDO ICU Ventilator SH-300

## Features

10.4" TFT color screen

Easy setting by navigator wheel knob and touch key

Wide choice of ventilation modes including CPAP, APRV, BIPAP

Flow and pressure trigger

Static compliance and resistance monitor

PEEP, P-V loop, V-F loop

Three-level visual and audible alarm, with concise words describing problems

Advanced built-in electronic air oxygen mixing device

Durable and accurate built-in flow sensor

Integrated expiration valve, easy to be sterilized

Backup apnea ventilation

Auto nebulizer

Built-in battery

CE certified



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## VCV Mode



In VCV mode, the ventilator delivers mandatory breaths by setting tidal volume. When the ventilator detects patient's inspiratory effort, it delivers a patient-initiated mandatory (PIM) breathe. If the ventilator does not detect inspiratory effort, it delivers a ventilator-initiated mandatory (VIM) breath at an interval based on the set respiratory rate. Breaths can be pressure-triggered or flow-triggered in VCV mode.

## PSV Mode



In PSV mode, inspiration is usually initiated by patient effort. Breaths are initiated via pressure or flow triggering. Clinician can also initiate a manual inspiration during PSV. PSV breaths are :

- > Controlled by pressure (preset PSV level + PEEP)
- > Limited by pressure (preset PSV level + PEEP + margin)
- > Cycled by time (PSV Tmax) or flow (PSV Cycle)

## SIMV Mode



SIMV is a mixed ventilation mode that allows both mandatory and spontaneous breaths. The mandatory breaths can be volume-based (SIMV-V) or pressure-based (SIMV-P), and the spontaneous breaths can be pressure-assisted. Clinician can select pressure-triggering or flow-triggering in SIMV.

## APRV Mode



APRV is a time cycled pressure mode. In this mode, patient is allowed to breath spontaneously at two preset pressure levels. These are set using the P<sub>high</sub> and P<sub>low</sub> controls. The max duration at each pressure during time cycling is set with the T<sub>high</sub> and T<sub>low</sub> controls. Additionally, CPAP can be added to improve comfort of patient during spontaneous breathing.

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## Great Visibility

ENDO SH300 is equipped with a large TFT 10.4" full-color display. The high resolution display provides for a flexible graphics menu combining respiratory curves, loops, and numerical data of physiological parameters.

## Assistant Functions

**Inspiratory Hold:** Convenience for taking X-ray picture of the patient during ventilation, availability for clinician to assess patient's static pulmonary mechanics.

**Expiratory Hold:** Accessibility for measuring intrinsic PEEP

**100% FiO<sub>2</sub>:** More effective support for suction

The manifold parameter selections are operated by means of a single ComWheel

**Manual Insp:** Availability for clinician to make prompt response to patient's inspiration need

## Expiratory Valve

With heating function, the expiratory valve protects the device from condensed water, accuracy of the flow sensor is ensured.

## Humidifier

Warm and humidity airflow with protection function, nine steps to control temperature.

## Compressor

High quality medical compressor with low noise, compatible for most medical devices.

The ENDO logo is displayed in a large, bold, red, sans-serif font. It is positioned at the bottom right of the page, partially overlapping a thick red horizontal bar that spans the width of the page.

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## Specifications

### Ventilator Setting

Ventilation mode	VCV, PCV, PSV, SIMV-V, SIMV-P, SPONT, CPAP, backup apnea ventilation APRV, BIPAP (Option)
Tidal volume	50~1500 ml
Breath rate	1~100 bpm
SIMV breath rate	1~40 bpm
Inspiratory time	0.1 ~ 12s
Pause time	0 ~ 4.8s
Pressure trigger sensitivity	(PEEP-20cmH2O) ~ PEEPcmH2O
Flow trigger sensitivity	1 ~ 20 LPM
PSV	0 ~ 70cmH2O
High pressure	1 ~ 80 cmH2O
Low pressure	0 ~ 79 cmH2O
Waveforms displayed	P-T, F-T, V-T, P-V loop, V-F loop
PEEP / CPAP	0 ~ 50 cm H2O
FiO2	21 ~ 100%
Psupp	0 ~ 70 cmH2O
Pinsp	5 ~ 70 cmH2O
Thigh	0.1 ~ 30s
Tlow	0.5 ~ 30s
Phigh	5 ~ 70 cmH2O
Plow	0 ~ 50 cmH2O
Alarm silence	≤120s
Parameters monitored	VTI, VTE, MV, MVspn, f, fspn, FiO2, Ppeal, Pmean, Pplat, PEEP, Pmin, Compliance, Resistance
Interface	RS232, VGA

### Assist Functions

Freeze	Freeze current screen and suspend real-time data
Insp hold	15s max
Exp hold	15s max
O2 suction	100% O2 for 2 minutes
Manual Insp	

### Alarms

MV-upper limit	0~99L
MV-lower limit	0~99L
Paw-upper limit	0.1~8kPa
Paw-lower limit	0~7.9kPa
VTE-upper limit	0.05~2.00L, OFF
Rate-upper limit	1~100bpm
Rate-lower limit	0~99bpm
Tapnea	15~60s
FiO2-lower limit	21~99%
FiO2-upper limit	22~100%
Mains failure, battery low, battery discharged, Air/O2 supply down, circuit occlusion.	

### Power and environmental

Power	AC 110~240V, 50 ~ 60 Hz DC 12V, 4.4AH
Power consumption	65 VA
Driven mode	Pneumatically driven, electronically controlled
Air / O2 supply	Pressure 0.28~0.6 Mpa >50L/min.
Temperature	Operation 10~40° C Storage -20~55° C
Relative humidity	Operation ≤ 80%, non condensing Storage ≤ 93%, non condensing
Atmospheric pressure	Operation 70~106kPa Storage 50~106kPa

### Order information

Option	Compressor
Accessories	Power cord, gas pipeline, patient circuit, face mask, humidifier, support arm

### Main unit weight and dimension

Weight	≤16 kg
Dimension	(H)400 x (W)303 x (D) 250mm

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*ENDO delivers high quality products and services to patients and clinicians. ENDO exceeds the expectations of customers by providing the highest standards in customer care.*

## Product Range

ICU Ventilators, Emergency Ventilators, Anesthesia Machines, Infusion Pump, Syringe Pump, Veterinary Products, Spare Parts.



# ENDO

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