



# ICU Ventilator SH300

*Your Health, Our Future*



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

CE 0482



Hichens.  
Harrison & CO  
Established 1803



***Eternity***



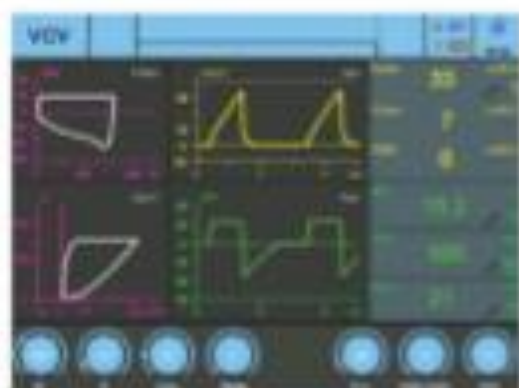
## ICU Ventilator SH300

### 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



## ◆ 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.

## ◆ 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.

## ◆ 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)

## ◆ 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 maximum 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

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% FiO2:** 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 humidify airflow with protection function, nine steps to control temperature.

## Compressor

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





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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 ~ 1500ml
Breath rate	1 ~ 100bpm
SIMV breath rate	1 ~ 40bpm
Inspiratory time	0.1 ~ 12s
Pause time	0 ~ 4.8s
Pressure trigger sensitivity	(PEEP-20cmH <sub>2</sub> O) ~ PEEPcmH <sub>2</sub> O
Flow trigger sensitivity	1 ~ 20LPM
PSV	0 ~ 70cmH <sub>2</sub> O
High pressure	1 ~ 80cmH <sub>2</sub> O
Low pressure	0 ~ 79cmH <sub>2</sub> O
Waveforms displayed	P-T, F-T, V-T, P-V loop, V-F loop
PEEP/CPAP	0 ~ 50cmH <sub>2</sub> O
FiO <sub>2</sub>	21 ~ 100%
P <sub>supp</sub>	0 ~ 70cmH <sub>2</sub> O
P <sub>insp</sub>	5 ~ 70cmH <sub>2</sub> O
Thigh	0.1 ~ 30s
Tlow	0.5 ~ 30s
Phigh	5 ~ 70cmH <sub>2</sub> O
P <sub>low</sub>	0 ~ 50cmH <sub>2</sub> O
Alarm silence	< 120s
Parameters monitored	V <sub>t</sub> , V <sub>t</sub> , MV, MVbpm, E fign, FiO <sub>2</sub> , P <sub>peak</sub> , P <sub>mean</sub> , P <sub>plat</sub> , PEEP, P <sub>min</sub> , Compliance, Resistance
Interface	RS232, VGA

### Assist functions

Freeze	Freeze current screen and suspend real-time data
Insp hold	15s max
Exp hold	15s max
O <sub>2</sub> suction	100% O <sub>2</sub> for 2 minutes
Manual Insp	

### Alarms

MV-upper limit	0 ~ 99L
MV-lower limit	0 ~ 99L
P <sub>aw</sub> -upper limit	0.1 ~ 8kPa
P <sub>aw</sub> -lower limit	0 ~ 7.9kPa
V <sub>t</sub> -upper limit	0.05 ~ 2.00L, OFF
Rate-upper limit	1 ~ 100bpm
Rate-lower limit	0 ~ 99bpm
Tapnea	15 ~ 60s
FiO <sub>2</sub> -lower limit	21 ~ 99%
FiO <sub>2</sub> -upper limit	22 ~ 100%
Mains failure, Battery low, Battery discharged, Air/O <sub>2</sub> supply down, Circuit occlusion	

### Power and environmental

Power	AC 110 ~ 240V, 50 ~ 60HZ DC 12V, 4.4AH
Power consumption	ESVA
Driven mode	Pneumatically driven, electronically controlled
Air/O <sub>2</sub> supply	Pressure 0.28 ~ 0.6Mpa >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	< 16KG
Dimension	(H)400 × (W)303 × (D)250mm



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*Eternity delivers high quality products and services  
to patients and clinicians worldwide.*

*Eternity exceeds the expectations of customers  
by providing the highest standards in customer care.*

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