



ICU Ventilator SH300

Your Health, Our Future



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

CE 0482



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



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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_{high} and P_{low} controls. The maximum duration at each pressure during time cycling is set with the T_{high} and T_{low} 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

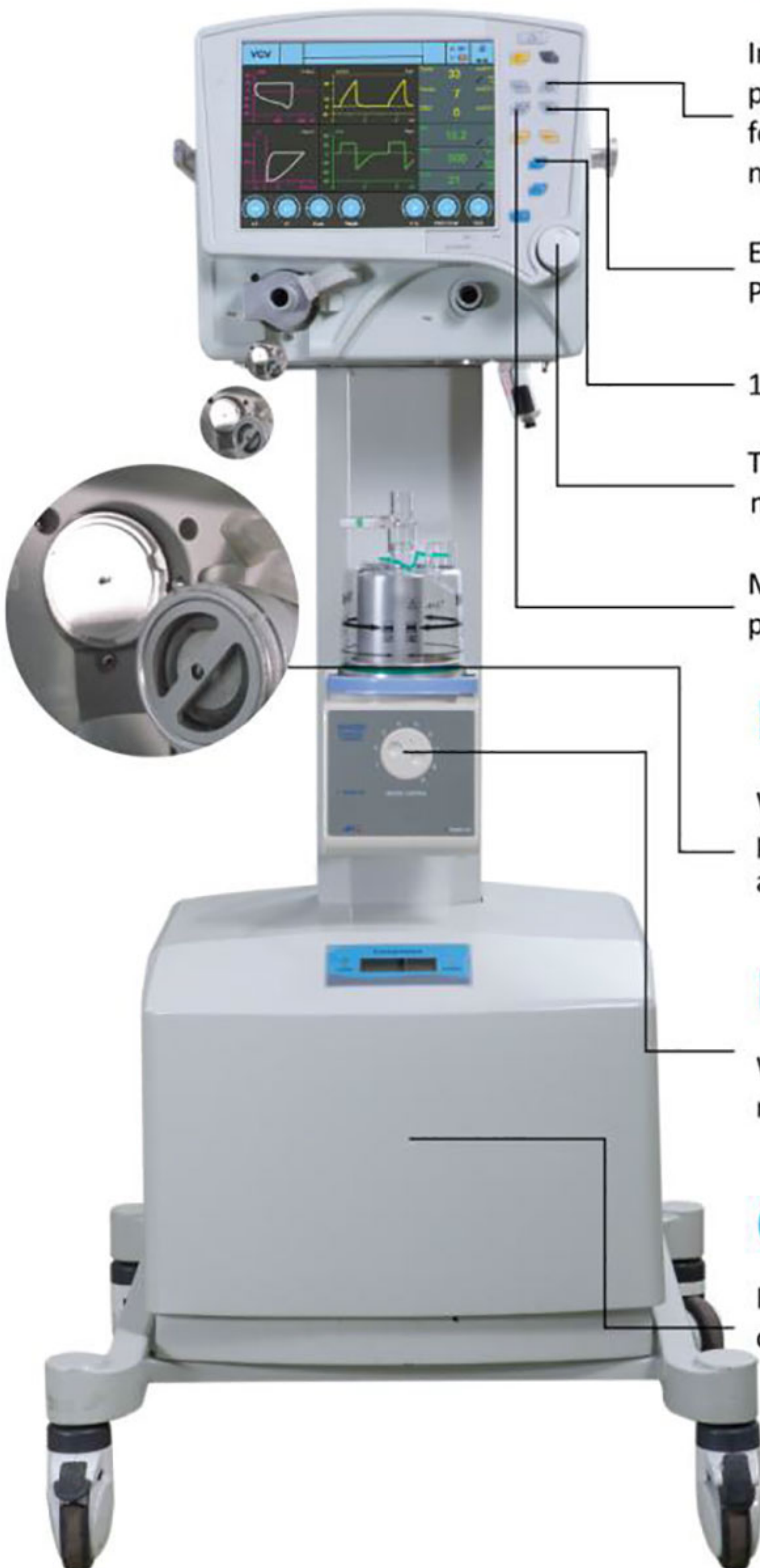
With heating function, the expiratory valve protects the device from condensed water, accuracy of the flow sensor is ensured.

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-20cmH2O) ~ PEEPcmH2O
Flow trigger sensitivity	1 ~ 20LPM
PSV	0 ~ 70cmH2O
High pressure	1 ~ 80cmH2O
Low pressure	0 ~ 79cmH2O
Waveforms displayed	P-T, F-T, V-T, P-V loop, V-F loop
PEEP/CPAP	0 ~ 50cmH2O
FiO2	21 ~ 100%
Psupp	0 ~ 70cmH2O
Pinsp	5 ~ 70cmH2O
Thigh	0.1 ~ 30s
Tlow	0.5 ~ 30s
Phigh	5 ~ 70cmH2O
Plow	0 ~ 50cmH2O
Alarm silence	≤120s
Parameters monitored	V _{Ti} , V _{TE} , MV, MV _{spn} , f, f _{spn} , FiO ₂ , P _{peak} , P _{mean} , P _{plat} , PEEP, P _{min} , 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
P _{aw} -upper limit	0.1 ~ 8kPa
P _{aw} -lower limit	0 ~ 7.9kPa
V _{TE} -upper limit	0.05 ~ 2.00L, OFF
Rate-upper limit	1 ~ 100bpm
Rate-low limit	0 ~ 99bpm
Tapnea	15 ~ 60s
FiO ₂ -lower limit	21 ~ 99%
FiO ₂ -upper limit	22 ~ 100%
Mains failure, Battery low, Battery discharged, Air/O ₂ supply down, Circuit occlusion	

Power and environmental

Power	AC 110 ~ 240V, 50 ~ 60HZ DC 12V, 4.4AH
Power consumption	65VA
Driven mode	Pneumatically driven, electronically controlled
Air/O ₂ 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.*



Product Range

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

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