

# HBHKN-93CS **INFANT RADIANT WARMER**

The infant radiant warmer is a radiant warming, open type incubator intended to provide an optimum clinical environment for observation, examination, temperature regulation, and management of neonates.



JIANGSU ROOE MEDICAL TECHNOLOGY CO., LTD.

## Specification

- Power input requirement: AC220V~230V/50Hz, 750VA
- Temperature Control Mode: Pre-warm mode. Manual mode, Baby mode
- Baby mode temperature control range: 34.5℃~37.5℃
- Skin temperature display range: 5℃~65℃
- Accuracy of skin temperature sensor: within ±0.2℃
- Skin temperature control accuracy: ≤0.5°C
- Temperature uniformity of mattress: ≤2°C

#### **Bilirubin Phototherapy Device References**

- The highest total irradiance for bilirubin on effective irradiated a
- The total irradiance for bilirubin on effective irradiated area of
- Average value of general bilirubin radiation on the mattress effe
- Bilirubin uniformity of radiating on the mattress effective range: >
  Operating noise of phototherapy unit: ambientnoise <40dB(A), o</li>
  LED effective service life %: 5000 hours

#### Pulse oximeter parameters

•	SpO2 displayed range: 1 ~ 100%, Resolution: 1%	F
-	Calibration range: 70~ 100%	-
100	SpO2 measurement accuracy: No motion ±3%%,	
-	Motion ±3% %, Low perfusion ±3% %	
_	High alarm limit setting range: 50 ~ 100 %	
	Low alarm setting range: 45 ~ 95%	•
•	PI displayed range: 0.02 ~ 20.0%, Resolution: 0.01%	_
(	Calibration range: 0.10 ~ 20.0%	•
	경제 이상 전에 가장 이렇게 이렇게 이렇게 지하는 것이 있는 것이 있는 것이 이렇게 지하는 것이 있는 것이 아니는 것이 있는 것이 없는 것이 없다. 것이 있는 것이 있는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없다. 것이 없는 것이 없다. 것이 없는 것이 없다. 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없 않는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 않은 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없다. 것이 않은 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없다. 것이 않은 것이 없는 것이 않은 것이 않이	

PR displayed Range: 25 ~ 240 bpm(1/Min),

## Infant Resuscitation Unit

- Source Input pressure: 300 ~ 500 kPa (45 ~ 75 Psi)
- Gas source flowrate: ≥ 50L / min

#### Suction Unit (venturi)

- Vacuum setting knob setting range: 0 ~ 18.67 ± 1.33kPa (0 ~ 140 ± 10mmHg)
- Vacuum response time: When the input gas source pressure is 500kPa, vacuum in 10 seconds should be at least 17.34kPa (130mmHg)
- Scale range of vacuum gauge: 0 ~ 21 kPa (0 ~ 160 mmHg)
- Vacuum gauge accuracy: ±5% of full-scale value

#### Air-oxygen blender Unit

Oxygen concentration set range: 21% ~100%; Accuracy: ±3% V/V Flow setting range: 0~15L/min;the levels are set respectively: 0, 0.5, 1, 2, 3, 4, 5, 6, 8, 10, 12,15 (L/min) Flow Accuracy: 0.5, 1, 2, 3, 4 L/min (Flow Rate) for ± 0.5 L/min; 5, 6, 8, 10 L /min (Flow Rate)for ±1 L /min; 12 and 15 L /min (Flow Rate) for ± 2 L /min.

#### T-piece Resuscitator Unit

Pressure gauge range: -10~ 80 cmH2O, Manometer accuracy: ±2% of full-scale value Maximum pressure (Pmax) setting range: 1~60 cmH2O; / default settings and also used for performance detection: 40 cmH2O. Peak Inspiratory Pressure (PIP) setting range: When the flow rate of 5 L/min, 1–57 cmH2O;When the flow rate of 8 L/min, 2–58 cmH2O;When the flow rate of 10 L/min, 3–59 cmH2O;When the flow rate of 15 L/min, 5–60 cmH2O Positive End-Expiratory Pressure (PEEP) setting range: When the flow rate of 8 L/min, 0.2-17 cmH2O; When the flow rate of 5 L/min, 0-8 cmH2O; When the flow rate of 15 L/min, 1-28 cmH2O. When the flow rate of 10 L/min, 0.5-23 cmH2O;



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 Inclination of the bassinet: ±12° Stepless Adjustment
 APGAR timer: audible and visible alarm will be activated when the equipment runs to 50" ~ 1', 4'50" ~ 5', 9'50" ~ 10'. • Alarm: Power failure alarm, set alarm, check alarm, sensor alarm, temperature over alarm, deviation alarm, system error alarm, pulse oximeter alarm, pulse rate high alarm limit, pulse rate low alarm limit, SpO2 high alarm limit, SpO2 low alarm limit, system reminder alarm, single gas source fault alarm, low pressure alarm.

area of mattress: 1.45mW/cm <sup>2</sup>										
mattress: ≥1.33mW/cm <sup>2</sup>	 		-	-			-	-	-	_
fective range: ≥1mW/cm <sup>2</sup>	 	 						_	_	_
e: >0.4	 			 _						
, operating noise≤50dB(A)	 	 		 _		_	_	_	_	_

Resolution: 1 bpm(1/Min), Calibration range: 25 ~ 240 bpm (1/Min) Pulse measurement accuracy: No motion ±3 bpm(1/Min) %, Motion ± 5 bpm(1/Min) %, low perfusion of ± 3 bpm(1/Min) % High alarm limit setting range: 80 ~ 240 bpm(1/Min ) \*

Low alarm setting range: 35 ~ 180 bpm(1/Min ) ※ Averaging time: 2 ~ 4, 4 ~ 6,8,10,12,14,16 seconds, the factory default setting is 8 seconds

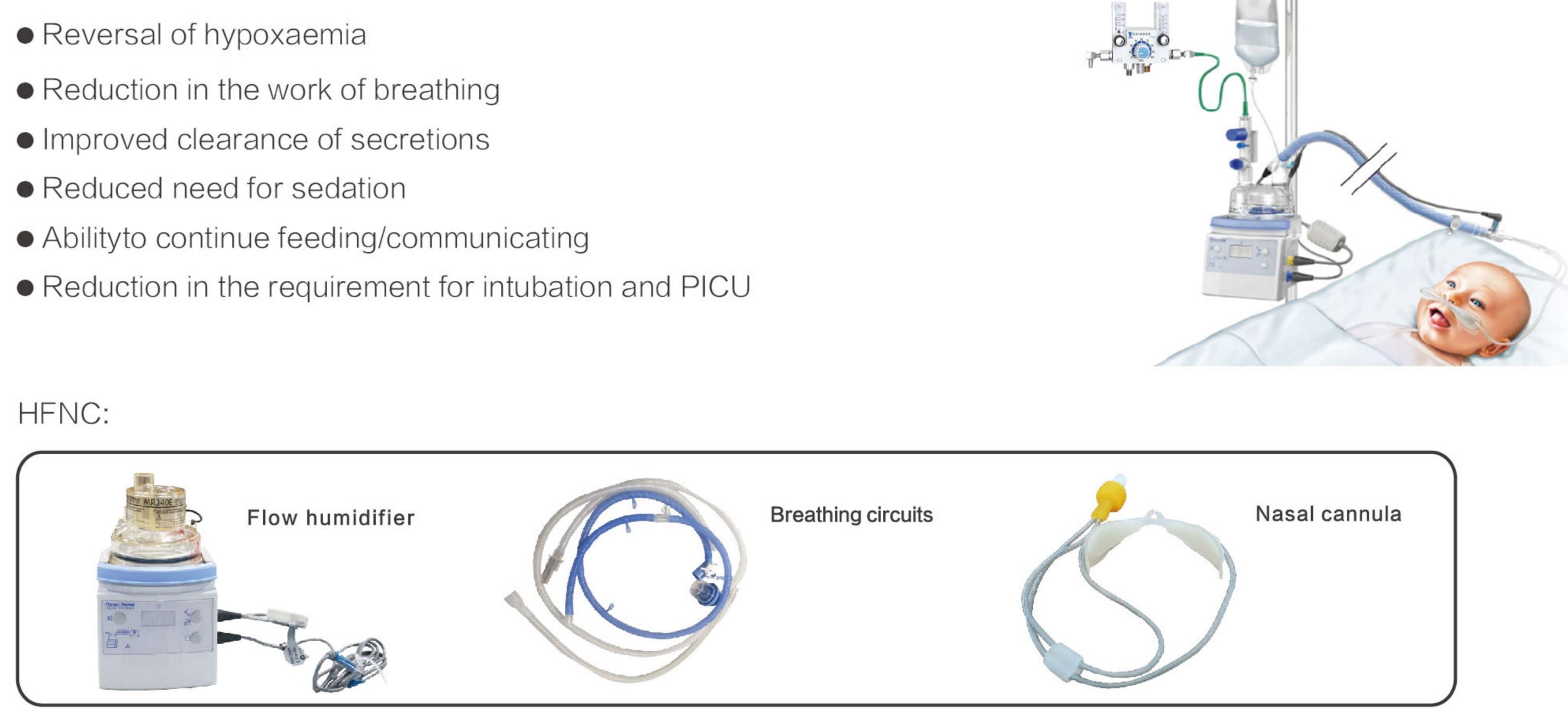
Sensitivity: Normal, APOD, Max, the factory preset setting is Normal • FastSAT: disenable, enable, the factory preset setting is disenable

• Free air flowrate: < 20L/min (at the maximum negative pressure Settings); Gas wastage: < 28L/min(at the maximum vacuum setting)

#### HFNC (Optional)

Humidified high flow nasal cannula oxygen (HHFNC or high flow oxygen) is a non-invasive system used to deliver humidified high flow oxygen therapy via nasal cannula. HFNC has become widely used in the paediatric population, not only for delivering oxygen therapy but also as a substitute for nasal CPAP.

#### HFNC:



## **Brief Introduction**

- micro-computer;
- Main touchable screen displays various information; Horizon angle of warmer module and inclination of the bassinet can be adjusted; The panels around bassinet can be turned outward
- and flipped down;
- X-ray cassette under the bassinet;
- APGAR timer;
- Failure alarm indications; RS232 connector for data output; Gas operated for emergency respiratory care ,
- non-electronic;
- Equipped with oxygen concentration adjustment and flow meter, adjusted separately with no cross impact; Ability to deliver a continuous flow of 21~100% oxygen with high accuracy of adjustment and steady
- gas output;
- Supply with PI\SPO2 \ PR monitor.

#### **Environmental Requirement**

Temperature: +18 °C ~ +30 °C, Relative Humidity: 30% RH ~ 75% RH, Atmospheric Pressure: 700hPa ~ 1060hPa Ambient air velocity: <0.3 m/s

 Three control modes: Pre-warm mode control, manual mode control and baby mode control by

## Standard Configuration

Warmer module, Skin temperature sensor, Bassinet, Tray, I.V. Pole, Electronic tilting mechanism, Vertical Height Adjustment (VHA) System, Air-oxygen blender, Suction unit (Venturi), Oxygen administer device (Including decompression device and cylinder), Infant T-Piece resuscitator, Bilirubin phototherapy equipment, Masimo pulse oximeter system.

#### **Optional Configuration**

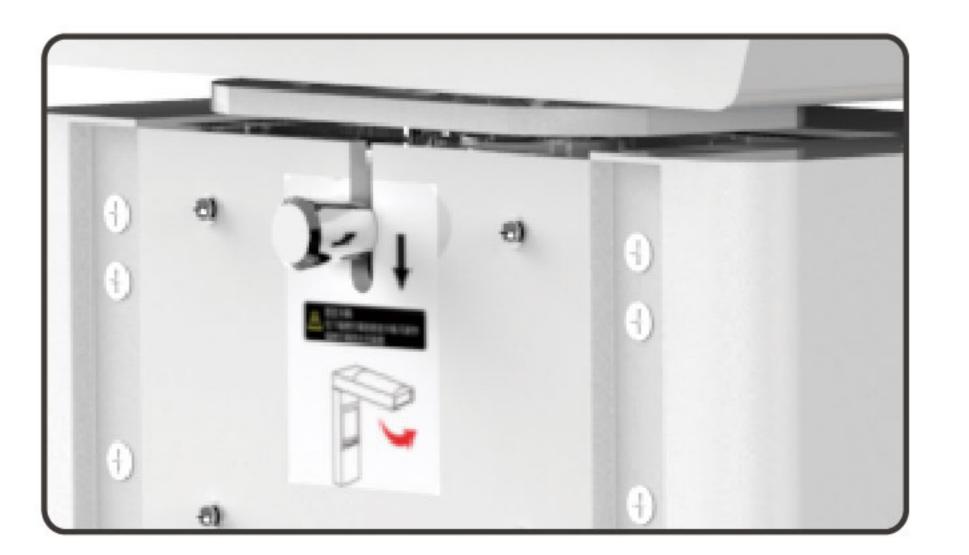
Weighing system, Disposable skin temperature sensor, CPAP(Flow humidifier, Bubble PAP valve, Breathing circuits, nCPAP nasal kit); HFNC (Flow humidifier, Breathing circuits, Nasal cannula).

#### **Product Packaging**

Package: each unit is packed into one carton Dimension: 127cm x 81cm x 112cm



## Endless Love (). To Guard The New Life Safe



Warmer module could be rotated horizontally in both directions.



Provides a variety of air source connection mode, may connect the wall center supply air or install air/oxygen tanks directly.



Vertical Height Adjustment System

The height can be adjusted freely while operating, Meet the operation of medical staff of different heights.





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#### Three control modes

Pre-warm mode control, manual mode control and baby mode control by micro-computer.

Heating Percentage



**Electronic Tilting Mechanism** Can control the Angle of the crib electronically.

#### Suction Unit (Venturi)

Using Venn's pneumatic negative pressure suction device professional for the cleaning of newborn respiratory

#### Air/oxygen blender

Provide and convey accurately controlled mixed air and oxygen gas to the patient in clinical use.



Floodlight

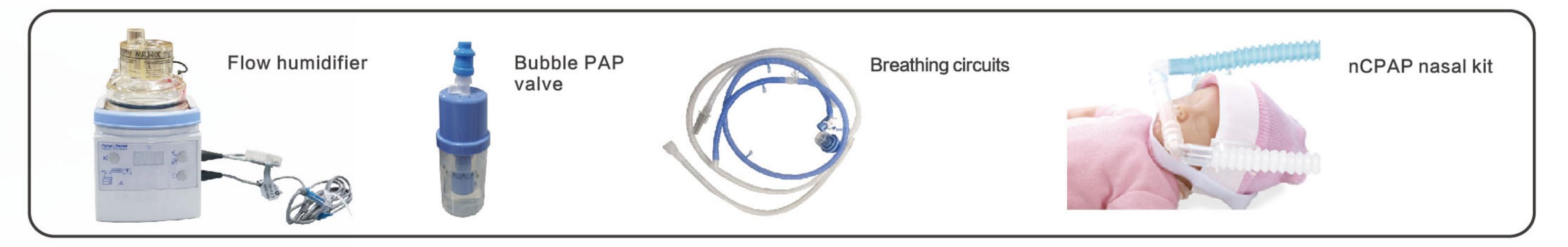
The brightness of the lighting is adjustable.

#### CPAP (Optional)

CPAP(Continuous Positive Airway Pressure), Use a snuffle or mask to deliver continuous positive airflow into the airway.

- Increase functional residual capacity, improve oxygenation and improve lung compliance
- Reduces breathing effort in newborns by improving gas dispersion
- Reduce the adverse effects of mechanical ventilation
- Reduce the incidence of chronic lung disease

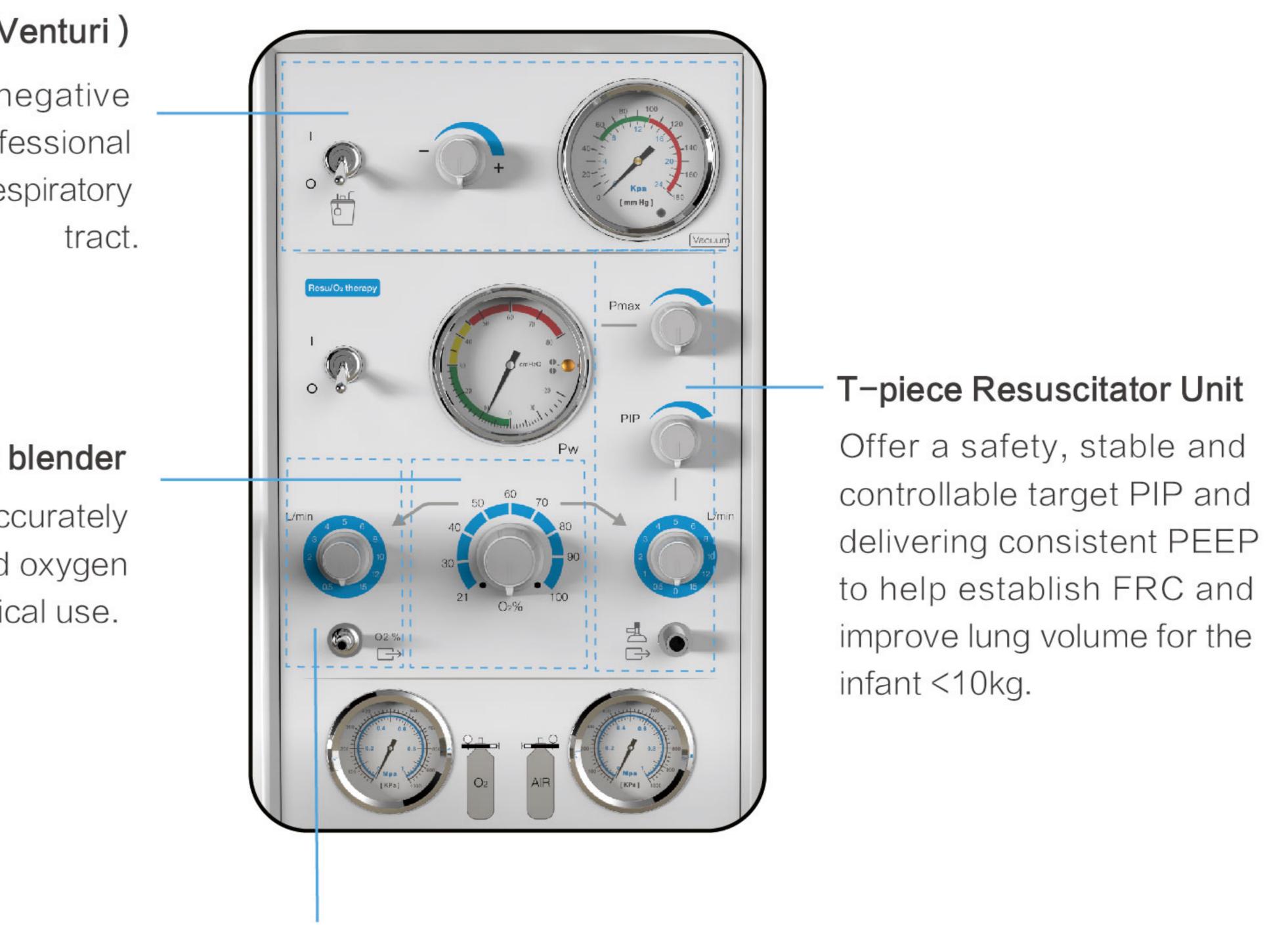
CPAP:





#### 8 inch touch screen





CPAP, HFNC (Optional)