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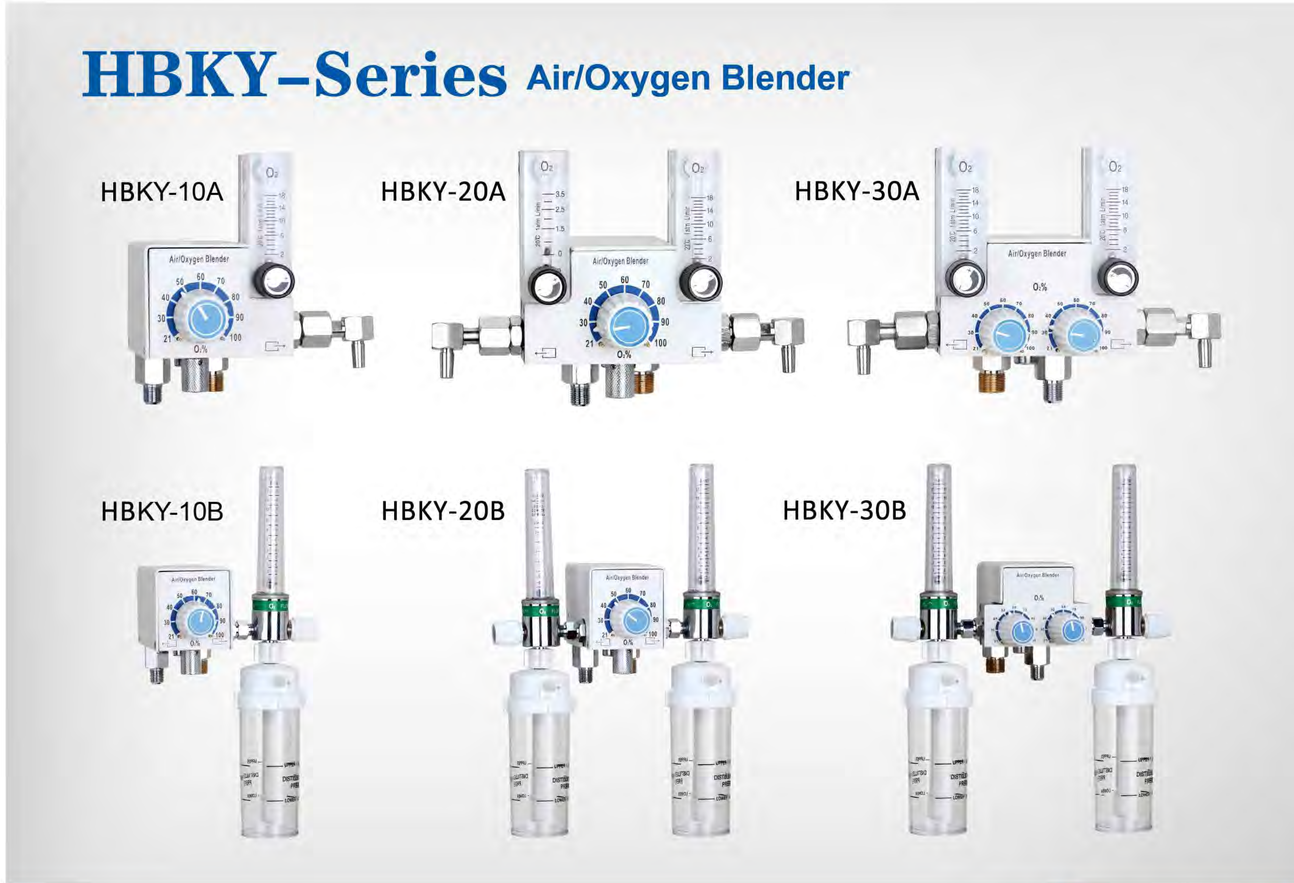
WANROOE MEDICAL

HBKY–Series Air/Oxygen Blender



Function introduction:

The Air/Oxygen Blender is a precision proportioning device for mixing medical grade air and oxygen, which provides oxygen concentration and conveying gas flow controlled oxygen therapy for clinic. Besides as opened-end oxygen delivery, the Air/Oxygen Blender is supporting the use of infant incubator, infant radiant warmer, infant oxygen hood, oxygen therapy instrument, ventilator, CPAP, resuscitator and epidural instrument etc, especially suitable for neonatal intensive care unit and ward oxygen delivery (Forbidden for the high blood oxygen disease).

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Performance Characteristics:

- Oxygen concentration is 21%-100% continuous adjustable;
- Oxygen concentration and flow rate is adjusted separately;
- High precision regulating and continuous steady gas output;
- Pneumatic control without power supply;
- HBKY-30A and HBKY-30B can be used for two patients simultaneously.

Specification:

- Oxygen concentration adjusting range and accuracy :

  HBKY-10A and HBKY-10B: Oxygen concentration adjusting range: 21% -100% ;

  Accuracy: ±3% O_2 (V/V) .

  HBKY-20A and HBKY-20B: Oxygen concentration adjusting range: 21% -100% ;

  Accuracy: ±3% O_2 (V/V) .

  HBKY-30A and HBKY-30B: Oxygen concentration adjusting range: 21% -100% ;

  Accuracy: The accuracy of HBKY-30A and HBKY-30B blender is ±3% O_2 (V/V) when use the single flow and the flow rate is more than 4L/min ;

  The accuracy of HBKY-30A and HBKY-30B blender is ±6% O_2 (V/V) when use the double flow and both sides flow rate are more than 4L/min.
- Flow rate adjusting range:

  HBKY-10A, HBKY-10B, HBKY-30A and HBKY-30B: 0L/min -18L/min ;

  HBKY-20A and HBKY-20B: 0L/min -18L/min and 0L/min-3.5L/min.
- Input gas source pressure: 207kPa-517kPa.
- Alarm of gas source :

  Gas supply pressure difference>138kPa ;

  Interruption of gas supply ;

  Gas supply pressure >560kPa ;

  The Air/Oxygen Blender is built-in pneumatic sound alarm device with the whistle sound ;

  The alarm sound pressure level is>57dB(A).
- The Reverse Gas Flow of zero (The reverse gas flow from either gas inlet to the other is zero).

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HBKY-Series

Air/Oxygen Blender

Model & Specification:

Model & Specification	HBKY-10A	HBKY-10B	HBKY-20A	HBKY-20B	HBKY-30A	HBKY-30B
Concentration valve	Single		Single		Double	
Flowmeter	Single		Double		Double	
Humidification bottle	No	Yes	No	Yes	No	Yes
Gas bleed valve	Yes		Yes		No	
Main part dimension	123mm×63mm×71mm		123mm×68mm×71mm		123mm×68mm×71mm	
Weight	0.84kg		0.84kg		0.87kg	
Single/double patient use	Single patient use		Single patient use		Single/double patient use (adult)	
Packing dimension	315mm×300mm×265mm					
Gross weight	3.0kg		3.2kg		3.6kg	

WANROOE MEDICAL

HBHF Series

Breath Resuscitation Bag

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HBHF Series

Breath Resuscitation Bag

Brief Introduction:

- Main parts are made of silicon and PC material ;
- Aspirator valve is equipped with the fish mouth shape valve;
- Be equipped with the pressure limit valve avoiding the higher pressure output.

Standard Configuration:

- Air bag, aspirate valve, air collection bag, mask, fish mouth shape valve.

Specification:

- Scope: HBHF-I is for the patient's weight<5kg
  HBHF-II is for the patient's weight<10kg
  HBHF-III is for the patient's weight>40kg
- Output pressure: 3~4.5Kpa(HBHF-I/HBHF-II)
  ≤ 6Kpa(HBHF-III)
- Tidal volume: ≥ 50ml(HBHF-I)
  ≥ 150ml(HBHF-II)
  ≥ 600ml (HBHF-III)
- Ventilation frequency: 12 times/min, manually control(HBHF-I/HBHF-II/HBHF-III)

Product Packaging:

- Package: each unit is packed into one carton
- Dimension: 260mm x 200mm x 110mm (HBHF-I/HBHF-II)
  350mm x 250mm x 170mm (HBHF-III)
- Gross weight: 0.8kg (HBHF-I/HBHF-II)
  1.0kg (HBHF-III)

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HBJH20-1 Series

Transcutaneous Jaundice Detector

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HBJH20-1 Series
Transcutaneous Jaundice Detector

Technical specification:

Model	HBJH20-1A	HBJH20-1B	HBJH20-1C
Checking methods	Compare the blue and green light	Compare the blue and green light	Compare the blue and green light
Indication	Two-figure LED digital display	Three-figure LED digital display(one decimal digits)	Three-figure LCD digital display(one decimal digits)
Readable	Switch the measured value into the bilirubin value according to the comparative table	Test the bilirubin value directly on the forehead of baby	Test the bilirubin value directly on the forehead of baby
Average counting	No	No	Can calculate the measured average values for 2-5times automatically
Test deviation	00~20±1 21~40±2	0~15±1 16~25±1.5	0~15±1 16~25±1.5
Light resource	Xenon-flashing light	Xenon-flashing light	Xenon-flashing light
Power supply	Nickel xenon battery No.5 of 4 pieces	Nickel xenon battery group 4.8V	Nickel xenon battery group 4.8V
Prepare time of start-up	<10s	<10s	<5s
Charger	Input 220V 50Hz Output 6V 0.3ADC	Input 220V 50Hz Output 6V 0.3ADC	Input 220V 50Hz Output 6V 0.3ADC
Checkout	White screen indicates 00 or 01 Yellow screen indicates 20.0±1	White screen indicates 00 or 01 Yellow screen indicates 20.0±1	White screen indicates 00 or 01 Yellow screen indicates 20.0±1
Product Weight	About 340g	About 245g	About 190g
Product size	171mm x 74mm x 41mm	163mm x 66mm x 37mm	161mm x 53mm x 30mm
Gross weight	30kg		
Packing dimension	30cm x 25cm x 15cm		

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WANROOE MEDICAL

HBNEO–I

Infant T-piece Resuscitaor

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HBNEO–I

Infant T-piece Resuscitator

Brief Introduction:

- Designed according to ILCOR and AHA' s lastest resuscitation guidelines;
- Provide effective and safe airway management during resuscitation;
- Offer a safety, stable and controllable target Peak Inspiratory Pressures (PIP) and delivering consistent Positive end-expiratory Pressure (PEEP) to help establish Functional Residual Capacity (FRC) and improve lung volume;
- Manually operated, pneumatic driven for the infant <10kg weight, especially for premature;
- Applicable for delivery room, transport NICU and other sections.

Specification:

- Oxygen concentration: 21-100% (according to the oxygen concentration of air supply)
- Manometer range: -10-80cmH_2O (mbar), Precision: ±2% full scale
- Input gas flow range: 5-15L/min
- Maximum pressure (Pmax) setting range: gas flow is 8L/min, 3-60cmH_2O(mbar) (factory default is 40cmH2O(mbar))
- Peak inspiratory pressure (PIP) setting range:
  - 5L/min: 1-55cmH_2O(mbar)
  - 8L/min: 2-57cmH_2O(mbar)
  - 10L/min: 3-58cmH_2O(mbar)
  - 15L/min: 5-60cmH_2O(mbar)
- Positive end expiratory pressure (PEEP) setting range:
  - 5L/min: 1-8cmH_2O(mbar)
  - 8L/min: 1-17cmH_2O(mbar)
  - 10L/min: 1.5-23cmH_2O(mbar)
  - 15L/min: 3-26cmH_2O(mbar)
- Applicable time (400L, 50% air/oxygen mixture compressed gas):
  - 5L/min: 75min
  - 10L/min: 38min
  - 15L/min: 26min
- Total mass (including accessories): ≤ 2kg

Environmental temperature:

- Operating range: -18℃ -50℃
- Humidity: ≤ 95%

Product Packaging:

- Size: L480mm×W360mm×H230mm
- Gross Weight: 3Kg

Accessories

	Single Use Infant Resuscitation T-Piece Circuits	• T-piece Circuits include a value that can be manipulated to achieve desired PEEP level; • Single use; • Delivering surfactant through port; Suctioning through port.
	Gas Supply Line	The Gas Supply provides a unique connector to the HBNEO-I T-piece Infant Resuscitator
	Infant Resuscitation Mask	Different size can be offered, design to conform comfortably to an infant's face, facilitating an anatomical seal for the purposes of resuscitation.

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WANROOE MEDICAL

HBS Series
Low Pressure Suction

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HBS Series
Low Pressure Suction

Brief Introduction:

- Low pressure electromagnetism pump, power off without feedback;
- Be equipped with the liquid bottle;
- HBS-2 low pressure aspirator: Alarm indication for full of bottle;
- HBS-3 is made by mould with streamlined design; Ararm indication for full of bottle.

Standard Configuration:

- Main body (including the electromagnetism pump, vacuum meter, filter, pressure adjusting valve), liquid tube, liquid bottle.

Specification:

- Power requirement: AC220-230V/50Hz or AC110-120V/50-60Hz, 15VA
- Pressure range: 0-22Kpa
- Aspirate speed is ≥ 400ml/10sec (water) when the negative pressure is 22Kpa
- Working noise: ≤ 55dB(A)
- Capacity of liquid bottle: 1000ml (HBS-1/HBS-2/HBS-3)

Product Packaging:

- Package: each unit is packed into one carton
- Dimension：385mm x 225mm x 280mm
- Gross weight: 4.2kg

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WANROOE
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HBYZ Series
Infant Oxygen Hood

HBTJ–I
Infant Head Fixing Unit

HBNE–B
Neonate Eyeshade

HBYZ Series Brief Introduction:

- High transparent acrylic glass material, air & oxygen proportion can be adjusted .(HBYZ-130,HBYZ-160,HBYZ-200)
- PC material with beautiful design, insistent to pressure, high strength, two sides operating window may be opened, protect curtain, air valve.(HBYZ-300)

HBYZ Series Product packaging:

- Package: each unit is packed into one carton
- Dimension: 26cm×26cm×28cm (HBYZ-130&HBYZ-160)
  32cm×32cm×35cm (HBYZ-200&HBYZ-300)
- Gross weight: 0.9kg (HBYZ-130&HBYZ-160)
  2.0kg (HBYZ-200&HBYZ-300)

HBTJ-I Brief Introduction:

- Can be used to fix the head of neonate;
- Fixing length can be adjusted.

HBTJ-I Product packaging:

- Package: each unit is packed into one carton
- Dimension: 415mmx29mmx155mm
- Gross weight: 2kg

HBNE-B Brief Introduction:

- Special material, creative design, soft, comfortable, safe, protect neonate's eyes during the phototherapy treatment.
- Three sizes: 255±10mm , 275±10mm , 335±10mm

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WANROOE MEDICAL

HBTJY Series

Ultrasonic Doppler Fetal Heartbeat Detector

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HBTJY Series

Ultrasonic Doppler Fetal Heartbeat Detector

Brief Introduction:

- Digital HBTJY-series Ultrasonic Doppler Fetal Heart Detector is applied to examine the fetus, its movement and its blood circulation on the principle of Doppler effect. The instrument is very important to the diagnosis of early stage gestation and the development of fetus, and it is able to detect the fetal rhythm, the sound of fetal blood flow or umbilical blood flow, the pulse of uterus artery and twin fetus. There is neither damage nor pain in gravidity during the examination, it is simple to operate; rapid to response and good in repeat.

Technical specification:

Model	HBTJY-1A	HBTJY-2A	HBTJY-1	HBTJY-2
Indication	No display	No display	LCD digital display	LCD digital display
Power requirement	In charging: AC220V±0%/50Hz±2% In using: DC4.3~4.8V	In charging: AC220V±0%/50Hz±2% In using: DC4.3~4.8V	In charging: AC220V±0%/50Hz±2% In using: DC4.3~4.8V	In charging: AC220V±0%/50Hz±2% In using: DC4.3~4.8V
Output ultrasonic frequency	2.5MHZ±10%	2.5MHZ±10%	2.5MHZ±10%	2.5MHZ±10%
Output ultrasonic power	< 10mW/cm^2	< 10mW/cm^2	< 10mW/cm^2	< 10mW/cm^2
Overall sensitivity	≥ 90dB	≥ 90dB	≥ 90dB	≥ 90dB
External size	30cm × 25cm × 15cm	29cm × 19cm × 9cm	30cm × 25cm × 15cm	29cm × 19cm × 9cm
Gross weight	1.5kg	0.5kg	1.5kg	0.5kg

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HBYC-B/HBYC-C

Infant Bed

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HBYC-B/ HBYC-C

Infant Bed

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Brief Introduction:

- HBYC-B: Consists of bed, bed frame, mattress, and I.V. pole;
- HBYC-C: Consists of bed, stainless steel bed frame, mattress, and I.V. pole.

Specification:

- The Max. Load of bassinet is 5 Kg
- The Max. Load of I.V. pole is 2 Kg

Product Packaging:

- Package: each unit is packed into one carton
- Dimension : 825mm x 450mm x 770mm (HBYC-B)
  890mm x 580mm x 550mm (HBYC-C)
- Gross weight : 21kg (HBYC-B)
  25kg (HBYC-C)

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WANROOE MEDICAL

HBYDW– II

Far Infrared Heater

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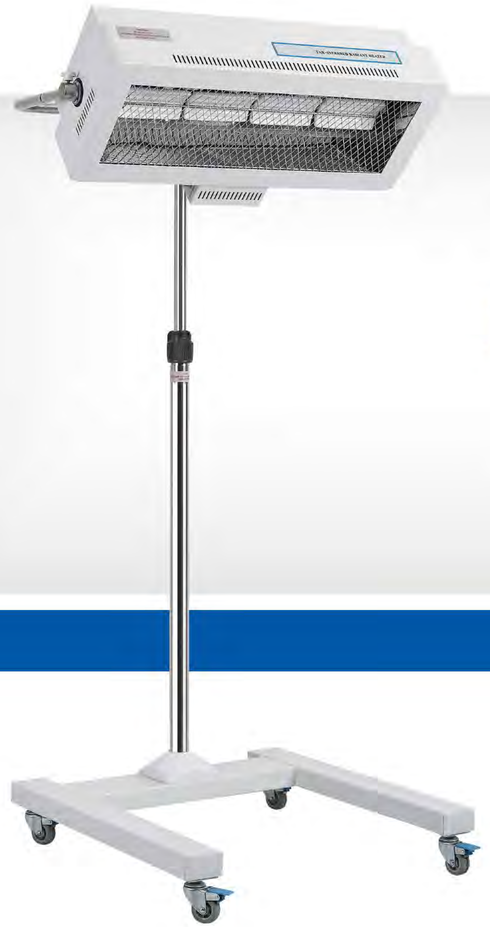

HBYDW– II

Far Infrared Heater

Brief Introduction:

- Ceramic plate as the infrared radiation resource, and its output can be adjusted;
- Angle of radiant box can be adjusted;
- Height of radiant box can be adjusted;
- Wheels can be locked.

Standard Configuration:

- Radiant box, knob of adjusting the angle, lift pole, wheels.

Specification:

- Power requirement: AC220V-230V/50Hz or AC110-120V/50-60Hz, 1000VA
- Infrared wave length: 5um~10um
- Adjusting of heating power: 500W/1000W two levels
- Speed of temperature rising:
- Under half-power: ≥ 0.18℃ /min
- Under full power: ≥ 0.36℃ /min
- Angle of radiant box can be adjusted
- Adjusting height of radiant box: 1300mm~1700mm

Environmental requirement:

- Environment temperature: 10℃ ~20℃
- Wind speed of environment: <0.3m/s

Product Packaging:

- Package: each unit is packed into one carton
- Dimension: 955mm x 655mm x 250mm
- Gross weight: 25kg

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