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PIGEON

OPTIMAL RESPIRATORY SOLUTION

NCPAP,Air Oxygen Blender,Medical Air Compressor,Infant Resuscitator,Humidifier,
Neonate Transport,Suction,Oxygen Analyzer,
Oxygen Inhaler,Circuit Support Arm,Trolley,Parts,etc.

Factory Profile

Guangdong Pigeon Medical Apparatus Co.,Ltd. is a high-tech enterprise specializing in independent research & development,production & sale of infant and maternal care products and assistive products since 1990s. Main products are Infant NCPAP, Air-oxygen Blender, Medical Air Compressor, Medical Heating Respiratory Humidifier, Infant Resuscitator, Oxygen Inhaler and Oxygen Analyzer,Neonate bed, etc.

Pigeon Medical dominates the Chinese and overseas market with high-quality products, professional skills,superior direct sales and after sales force, following four main principles: Advanced Technology, Excellent Quality, Users Supremacy and Customer Satisfaction.

CE 2460

CONTENT

INTRODUCTION

MAIN PRODUCT

Business
History

Established as
a state owned
enterprise in Puning,
Guangdong.

Certified ISO.

Start to entry
internation market.

Having distributors
in over 20 countries,
serving over
8000 hospitals.

Establish Shenzhen
office.

1990　　**2002**　　**2010**　　**2016**　　**2020**
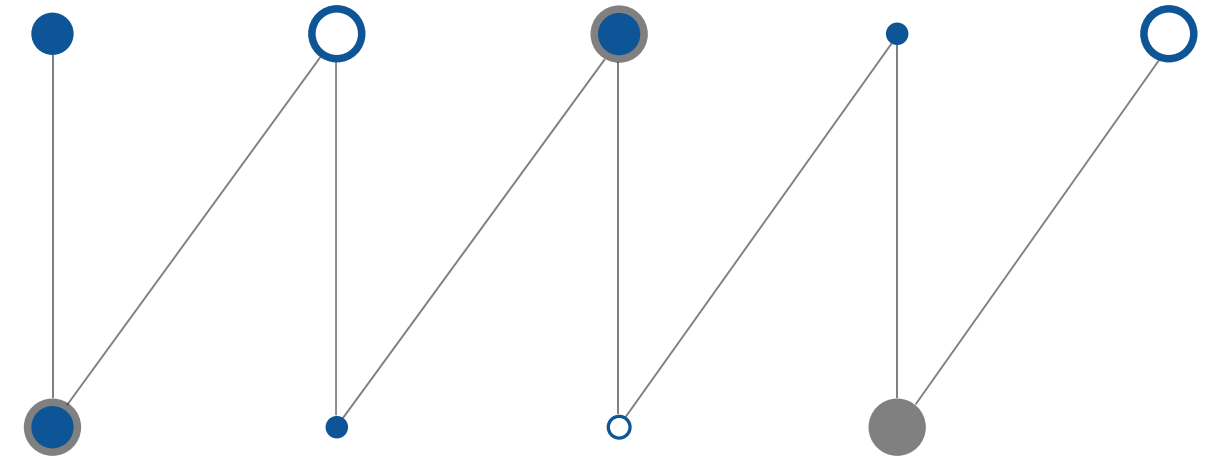
2001　　**2008**　　**2012**　　**2018**

Reformed to
Pigeon Medical.

Be awarded
as "Key Enterprise".

Branch was
founded in
Dongguan,Guangdong.

Enlarge and
redecorate
the factory to
10300m²,
having more
than 150 employees.

NCPAP

Nasal Continuous Positive Airway Pressure（NCPAP）is a form of positive airway pressure ventilation with nasal prongs to keep the airways continuously open in people who are able to breathe spontaneously. Pigeon AD series commit to respiratory care for premature, neonate, pediatric with nasal prongs and are widely applied in ICU,NICU,PICU,etc.

Model:AD-I   Model:AD-IA   Model:AD-II

| Model	AD-I	AD-IA	AD-II
FiO_2	21%-100%（±3%)	21%-100%（±3%)	21%-100%（±3%)
CPAP	3-10cmH$_2$O	3-10cmH$_2$O	0-10cmH$_2$O
Flow	2-18LPM	1-10LPM	2-18LPM
Noise	≤55 dB(A)	≤55 dB(A)	≤55 dB(A)
Power source	AC220V/110V,50-60Hz	AC220V/110V,50-60Hz	AC220V/110V,50-60Hz
Gas source	Air/Oxygen@0.3-0.4MPa	Air/Oxygen@0.3-0.4MPa	Air/Oxygen@0.3-0.4MPa
Alarm	When gas supply pressure difference＞0.1 MPa		
Humidifier	Standard:PN-2000F; Optional:PN-2000FB,PN-2000FC850		
Air compressor	PN-4000(Optional)	Built-in	PN-3000(Optional)
Trolley	Yes	Optional	Yes

Interface

NCPAP
Bubble generator

| Made of PC material .
| Reusable and unbreakable with overflow protection.
| Adjust the CPAP pressure by column from 3 to 10 cmH$_2$O.
| The overflow container,cover and fill funnel can be easily removed for cleaning and disinfection without disturbing CPAP.

Mode	Description
10-29-10-23B	Interface nasal tube,50mm
10-29-10-23	Interface nasal tube,70mm
10-29-10-23A	Interface nasal tube,100mm

10-29-10-23B   **10-29-10-23**   **10-29-10-23A**
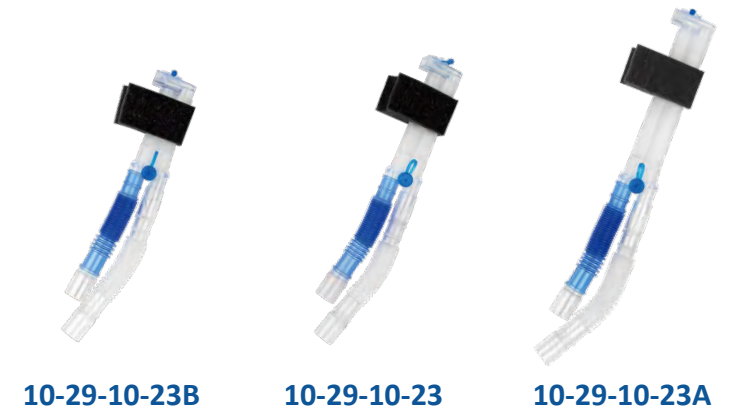
Mode	Description
08-01-03-64I	Infant Bonnet,29-36cm
08-01-03-64II	Infant Bonnet,36-46cm

08-01-03-64I   **08-01-03-64II**

Mode	Description
08-01-03-53	Nasal prong,3020
08-01-03-54	Nasal prong,3520
08-01-03-55	Nasal prong,4030
08-01-03-56	Nasal prong,4540
08-01-03-57	Nasal prong,5050

08-01-03-53   **08-01-03-54**

08-01-03-55   **08-01-03-56**   **08-01-03-57**
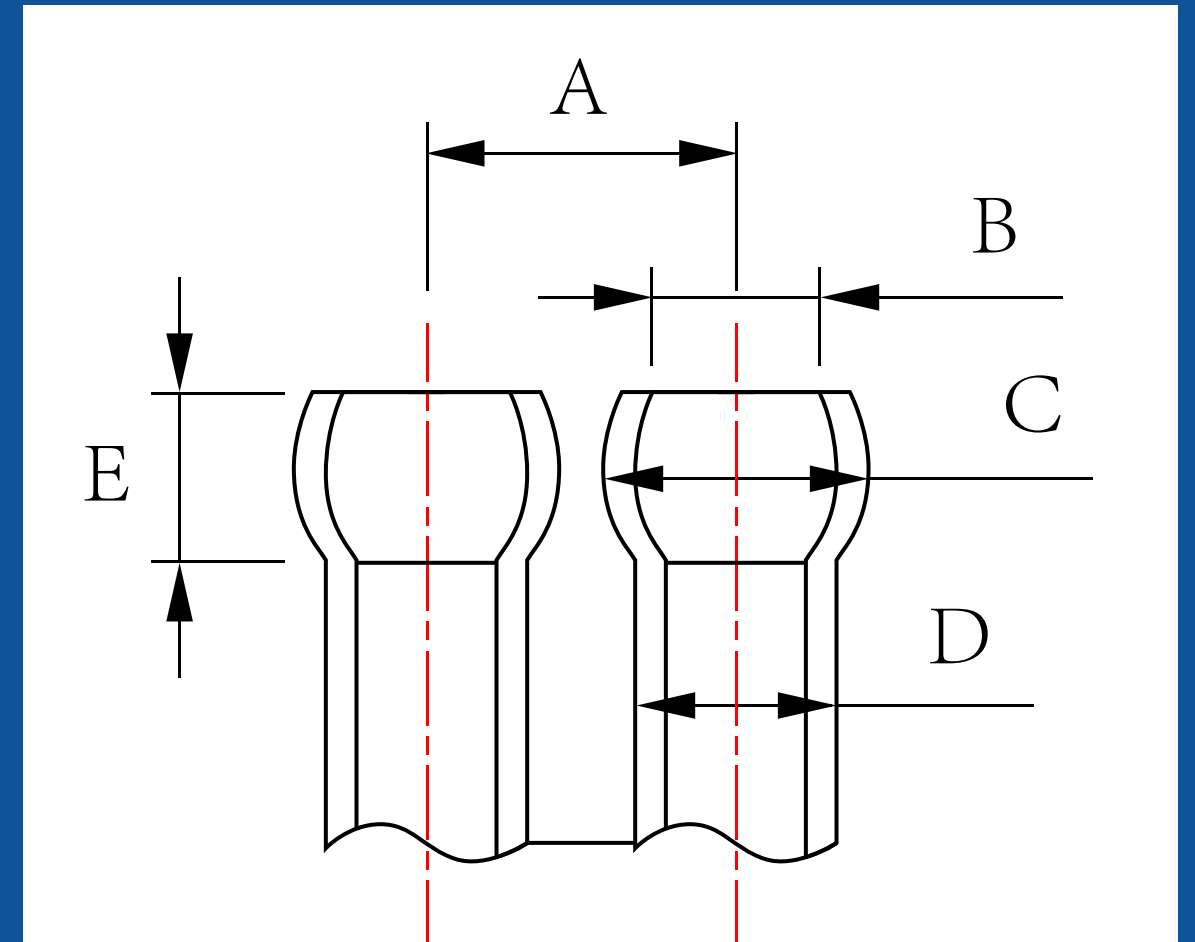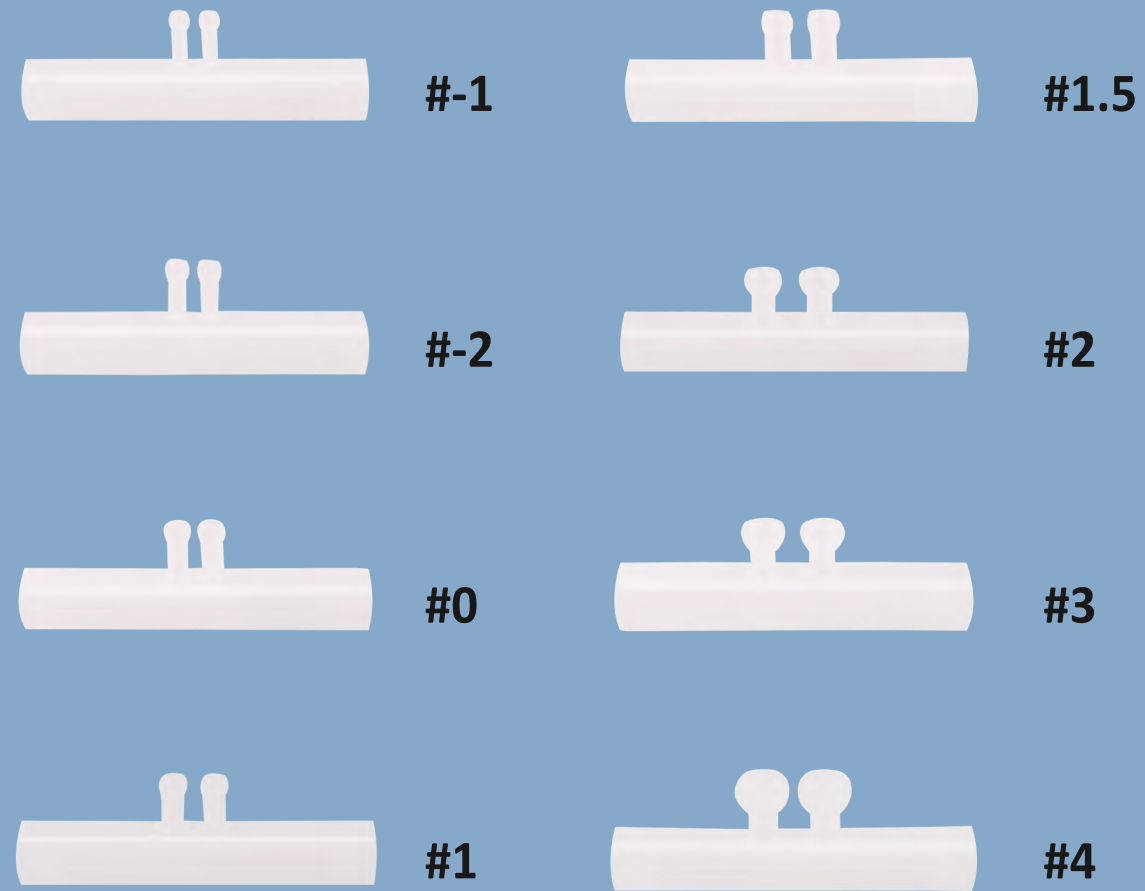
Horizontal nasal prong

Size	A	B	C	D	E
#-1	5mm	∅1.5mm	∅3.5mm	∅2.4mm	∅3mm
#-2	5.5mm	∅2.5mm	∅4mm	∅3mm	∅3mm
#0	5.5mm	∅3mm	∅4.5mm	∅3.5mm	∅3mm
#1	6mm	∅2.5mm	∅4.5mm	∅3.5mm	∅3mm
#1.5	7.5mm	∅3.5mm	∅5mm	∅4mm	∅3.5mm
#2	9mm	∅3mm	∅6mm	∅4mm	∅4.5mm
#3	9.5mm	∅3.5mm	∅6.7mm	∅4mm	∅5.5mm
#4	9.5mm	∅5.5mm	∅8mm	∅4.5mm	∅5.5mm

Air Oxygen Blender

AD3000-SPA

AD3000-SPB

AD3000-SPD

AD3000-SPD2

AD3000-SPE

Model	AD3000-SPA	AD3000-SPB	AD3000-SPD	AD3000-SPD2
FiO$_2$	21%-100%	21%-100%	21%-100%	21%-100%
Flow	2-18LPM	1-15LPM	0.1-1&1-10LPM	0.1-1&1-10LPM
Pressure	Air/Oxygen@0.3-0.4MPa			
Alarm	When gas supply pressure difference＞0.1 MPa			
Alarm nosie	>57 dB(A)	>57 dB(A)	>57 dB(A)	>57 dB(A)
Number of output	Single	Single	Single	Dual
Accuracy of FiO$_2$	±3%	±3%	±3%	±3%
Bleed flow	/	/	3LPM	3LPM

Model	AD3000-SPE
Power source	1.5V AAA battery x 3
FiO$_2$	21%- 100 %
Flow	1-15 LPM
Pressure	Air/Oxygen @ 0.3- 0.4 MPa
Alarm	When gas supply difference > 0.1 MPa
Alarm noise	>57dB(A)
Accuracy of FiO$_2$	±3%

Recommended Blender Accessories

Product code
10-29-02-01
Description
Air high pressure tube, 2m(6.5ft),black

10-29-02-01

Product code
10-29-02-03
Description
Oxygen high pressure tube, 2m(6.5ft),blue

10-29-02-03

Product code
10-29-14-12
Description
Bubble humidifier bottle

10-29-14-12

Product code
10-29-19-02
Description
Mounting bracket

10-29-19-02

Product code
10-29-10-05A
Description
Central air connector, Chinese standard (BS,DIN,American standard optional)

10-29-10-05A

Product code
10-29-10-06A
Description
Central oxygen connector, Chinese standard (BS,DIN,American standard optional)

10-29-10-06A

Product code
10-29-10-04I
Description
A output connector II

10-29-10-04I

Product code
10-29-10-04
Description
A output Connector III

10-29-10-04

Medical
Air Compressor

Pigeon PN series provide air support for CPAP,ventilator,anaesthesia machine,etc.

▌ Oil-free,water-free,noise-free.
▌ Integrated with American GAST/THOMAS oil-free pump.
▌ Multiple well-known pneumatic components such as Japanese SMC& UK NORGREN.
▌ Double output is optional,providing air support for more than one machine.

PN-5000

PN-4000

PN-3000

PN-2000

Model	PN-5000	PN-4000	PN-3000	PN-2000
Output pressure	0.018MPa	0.25-0.4MPa	0.25-0.4MPa	0.25-0.4MPa
Continuous flow	10LPM	25LPM	60LPM	90LPM
Peak flow	>30LPM	>60LPM	>120LPM	>180LPM
Noise	≤55 dB(A)	≤55 dB(A)	≤55 dB(A)	≤55 dB(A)
Power source	AC 220V/110V, 50-60Hz	AC 220V/110V, 50-60Hz	AC 220V/110V, 50-60Hz	AC 220V/110V, 50-60Hz
Power	30VA	250VA	500VA	750VA
Thermal protection	/	120℃	120℃	120℃
Pressure display	/	Pressure gauge	Pressure gauge	Pressure gauge

Infant Resuscitator

With safe,precise and controllable PIP and PEEP,Pigeon infant resuscitator is easy to operate,
and can provide temporary breathing support.

Accessories

AD3000-TPA

AD3000-TPB

Model	AD3000-TPA	AD3000-TPB
Flow	/	0-15LPM
FiO$_2$	/	21%-100%
Alarm activation	/	Gas pressure difference>0.1MPa
Pressure gauge	-2-10kPa(-20-100cmH2O)	
PIP	@5 LPM,2～27 cmH2O	
	@8 LPM,4～36 cmH2O	
	@10 LPM,6～42 cmH2O	
	@15 LPM,12～57 cmH2O	
CPAP/PEEP	@5 LPM，0.3～6 cmH2O	
	@8 LPM，0.8～14 cmH2O	
	@10 LPM，1～17 cmH2O	
	@15 LPM，2.5～23 cmH2O	
Noise	≤50 dB(A)	
Gas source	0.3MPa-0.4MPa	
Recommended patient weight	Up to 10KG	

08-01-03-14

Product code	08-01-03-14
Description	T-piece breathing circuit,disposable,1.2m (*Reusable T-piece breathing circuit optional)

08-01-03-98

Product code	08-01-03-98
Description	Gas intake tube,2.5m

06-04-04-06A

Product code	06-04-04-06A
Description	Text lung ,25 ml

10-29-27-02

Product code	10-29-27-02
Description	Resuscitation masks Included 5 sizes XS(35 mm),1 pc S(42 mm),1 pc M(50 mm),1 pc L(60 mm),1 pc XL(72mm),1 pc

Humidifier

PN-2000F/FA   **PN-2000FB**   **PN-2000FC850**

Model	PN-2000F/FA	PN-2000FB	PN-2000FC850
Power source	AC 220V/110V,50-60Hz		
Heater Plate	150W		
Thermal cut off	95±6℃		
Display	Three digit,0.56 inch,7 segment LED		
Temperature monitoring	0-75℃		
Max-temperature of heated plate	85℃		
Heater Wire	/	22V~ ,2.73A, 60W, 50/60Hz	22V~,2.73A, 60W, 50/60Hz
Power Rate	150W	220W	220W
Alarm	No	Yes	Yes
Temperature Control Settings	/	Heatedwiremode： P1:25-29℃ P2:29-35℃ P3:35-39℃	Invasive Mode： Chamber outlet: 35.5-37℃, Airway 35-40℃
		Non-heated wire mode: P1:23-27℃ P2:27-32℃ P3:32-37℃	Noninvasive Mode： Chamber outlet: 31℃, Airway 28-34℃
Range	10-70℃, Accuracy: ±2℃ （In 25-45℃ temperature range）		

Accessories

Humidification chambers

PN-2000F

Model	PN-2000F
Description	Reusable chamber,adult,PC material

PN-2000FA

Model	PN-2000FA
Description	Reusable chamber,infant,PC material

VHC20

Model	VHC20
Description	Disposable chamber,auto-fill,adult

VHC10

Model	VHC10
Description	Disposable chamber,auto-fill,infant

Accessories

Temperature probe

For humidifier PN-2000FB

For humidifier PN-2000FC850

Heated wire adaptor

For humidifier PN-2000FB

For humidifier PN-2000FC850

For humidifier PN-2000FC850

Humidification paper

Mounting bracket

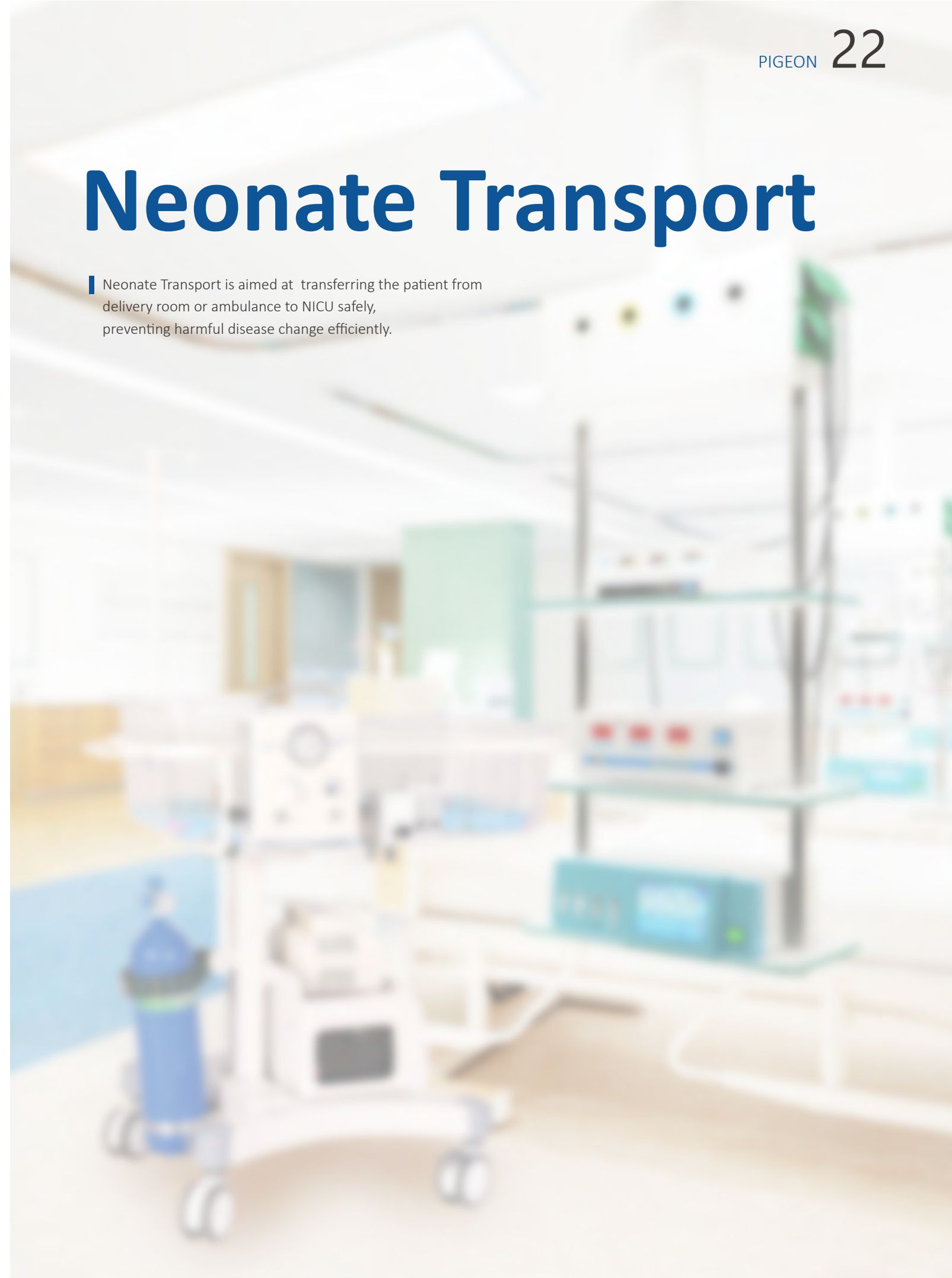## Reusable heated wire assembly

Draw wire

Neonate Transport

Neonate Transport is aimed at transferring the patient from
delivery room or ambulance to NICU safely,
preventing harmful disease change efficiently.

Suction

TP00003　　　　TP00004　　　　TP00009

Model	TP00003	TP00004	TP00009
Respiratory mode	Infant resuscitator	Infant resuscitator	Bubble CPAP
Air oxygen blender	External	Built-in	Built-in
Flow	0.1-1&1-10LPM	0-15LPM	0-10LPM
FiO_2	21%-100%	21%-100%	21%-100%
Pressure limit(MAX-P)	20-60cmH₂O,@5-15cmH₂O		3-10cmH₂O
Peak inspiratory pressure(PIP)	2-57cmH₂O,@5-15LPM		/
Positive end-expiratory pressure (PEEP)	0.3-23cmH₂O,@5-15LPM		3-10cmH₂O
Noise	<55 dB(A)		
Gas input	Air/Oxygen,0.3-0.4MPa		
UPS capacity	1500W		
Cylinder Capacity	4L		
Power source	AC 145-290V±5V		
Load capacity	Up to 20KG		

PN-3000VSD30　　　　PN-3000XP30　　　　PN-3000XP70

Model	PN-3000VSD30	PN-3000XP30	PN-3000XP70
Mode	Continuity/Intermittence	Continuity	Continuity
Suction pump	Piston	Piston	Piston
The maximum negative pressure value	≤0.06MPa	≥0.09MPa	≥0.09MPa
Negative pressure	-0.02MPa-0.06MPa	-0.02MPa-0.09MPa	-0.02MPa-0.09MPa
Pumping rate	≤20L/min	≥20L/min	>30L/min
Time adjustment	Working time adjustment range：01~10min	/	/
	Interval time adjustment range：01~10min		
	Default time：5min (ON)/2min(OFF)		
Container	1200ml	1200ml	3500mlX2
Noise	≤55dB(A)	≤55dB(A)	≤55dB(A)
Power source	AC 220V/110V, 50-60Hz	AC 220V/110V, 50-60Hz	AC 220V/110V, 50-60Hz
Input power	100VA	75VA	230VA

Oxygen Analyser

Characteristics:

▎Convenient to use with small size
▎The battery is chargeable(3.7V) that is convenient to carry
▎Stable performance and high precision
▎Economical and practical

Technical parameters:

▎Oxygen concentration:21%-100%
▎Power:DC 3.7V
▎Use life of oxygen sensor:2 years
▎Low battery alarm

Base Unit Specifications	
Measurement Range	0.0-100%
Resolution	0.1%
Accuracy and Linearity	±1% of full scale at constant temperature, R.H.and pressure when calibrated at full scale Total
Accuracy	±3% Actual oxygen level over full operating temperature range
Response Time	90% of final value in approximately 15 seconds at 23"C
Operating Temperature	15'C-40"C (59'F- 104"F)
Atmospheric Pressure	800-1013 mBars
Humidity	0-95%(non-condensing)
Power Requirements	3,AAA Alkaline batteries(3x 1.5 Volts)
Battery Life	approximately 5000 hours in typical use
Low Battery Indication	"LOW BAT"icon displayed on LCD
Sensor Type	ENVITEC 00M102-1 galvanic fuel cell
Expected Sensor Life	>1,000,000% 02 Hours over 2 years in typical applications Alarm
System	high/low alarms, audio buzzer
Low Oxygen Alarm Range	0%-99% (> 1% lower than low alarm)
High Oxygen Alarm Range	1%-100% (>1% higher than low alarm)
Alarm Accuracy	exact to displayed alarm value
Dimensions	84mmx 130mm x 31mm
Weight	approximately 0.25 kg

Adult HFNC

Pigeon High Flow Nasal Cannula(HFNC) oxygen therapy is a form of non-invasive respiratory support which comprises an air oxygen blender, an active humidifier ,a single heated circuit and a nasal cannula.It delivers adequately heated and humidified medical gas up to 60 L/min,and is considered to have a number of physiological effects.

Air Oxygen Blender	
Model	AD3000-SPA (6-60LPM)
FiO$_2$	21%-100%
Pressure of source	Air/Oxygen@0.3-0.4 Mpa
Alarm	When gas supply pressure difference > 0.1 Mpa
Alarm Noise	>57 dB(A)
Number of output	Single
Number of flowmeter	Single
Accuracy of FiO$_2$	3%
Bleed Flow	3LPM

HFNC without air compressor

HFNC with air compressor

High Flow Nasal Cannula

Code	Description
HFNC-001	High flow nasal cannula ,Large
HFNC-002	High flow nasal cannula,Medium
HFNC-003	High flow nasal cannula , Small

Infant HFNC

High flow nasal cannula

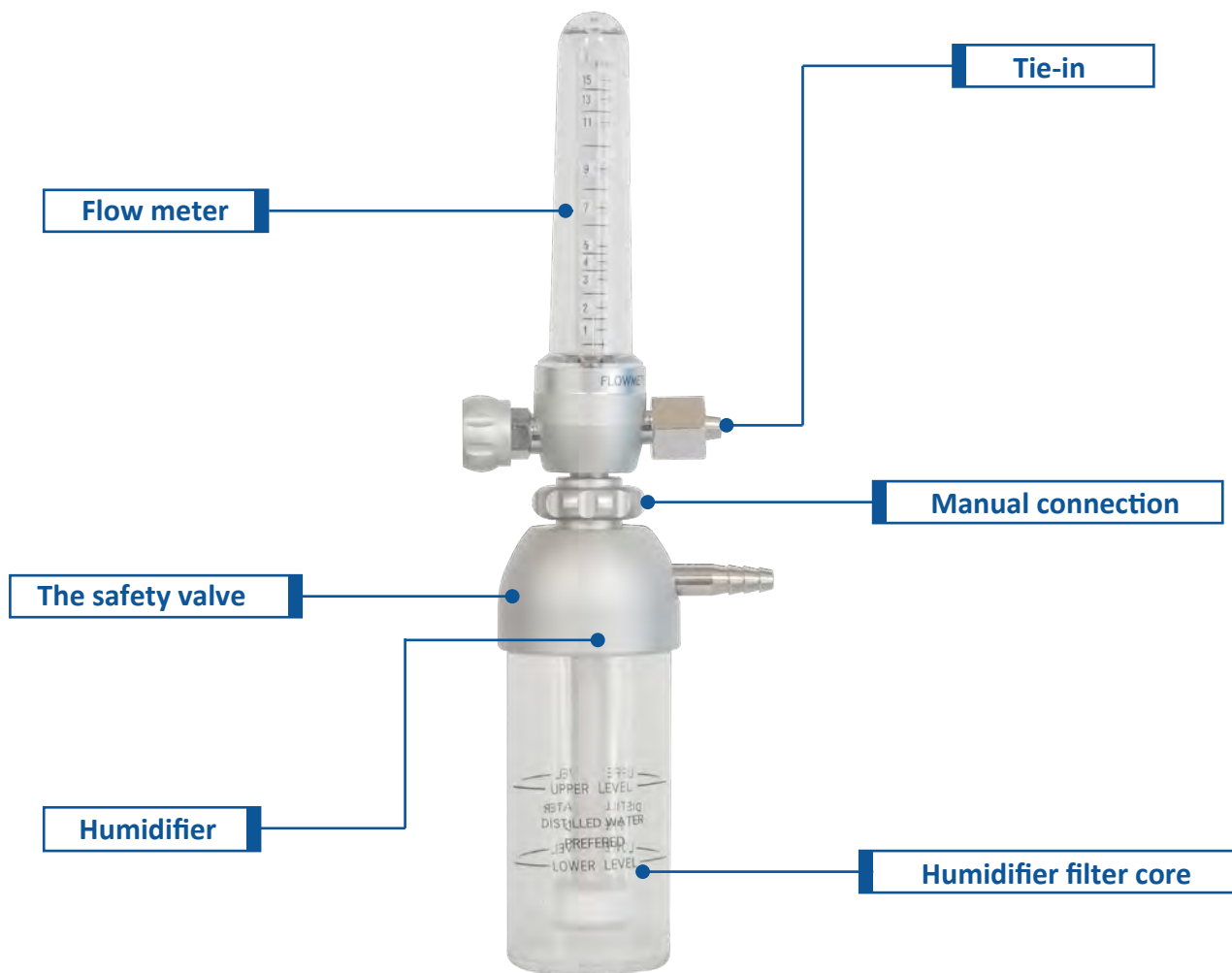| Code	Description
I-HFNC-001	High flow nasal cannula ,Large
I-HFNC-002	High flow nasal cannula,Medium
I-HFNC-003	High flow nasal cannula , Small

Oxygen Inhaler

Tie-in

Flow meter

Manual connection

The safety valve

Humidifier

Humidifier filter core

Performance parameters

Pressure resistance:before the flow control valve should be able to bear the pressure of 10 bar.

Humidification bottle should not be broken under pressrue 0.5MPa±0.05MPa.

Flow control range:1L/min~15L/min

Pressure of relief valve:0.35MPa±0.35MPa,the relief valve will exhaust automatically.

Tighten the flow valve and sealed the parts connection of inhaler.Shall not be lock.

Humidification bottle:GZ-XRQ-1 45~85ml.

Circuit Support Arm

| Type	Hanging weight	Material	Surface treatment	Arm length	Tube diameter
Light	0.5 kg	Aluminum, stainless steel	Oxidation, electroplating	390mm x 380mm x 380mm x 95mm	Φ14
Heavy	1.5 kg	Aluminum, stainless steel	Oxidation, electroplating	400mm x 420mm x 420mm x120mm	Φ16

Trolley

Completed Matching Solution of Ventilator

Fabian
MV
AVEA
VELA
RESMED
SLE
Newport
GE

Parts
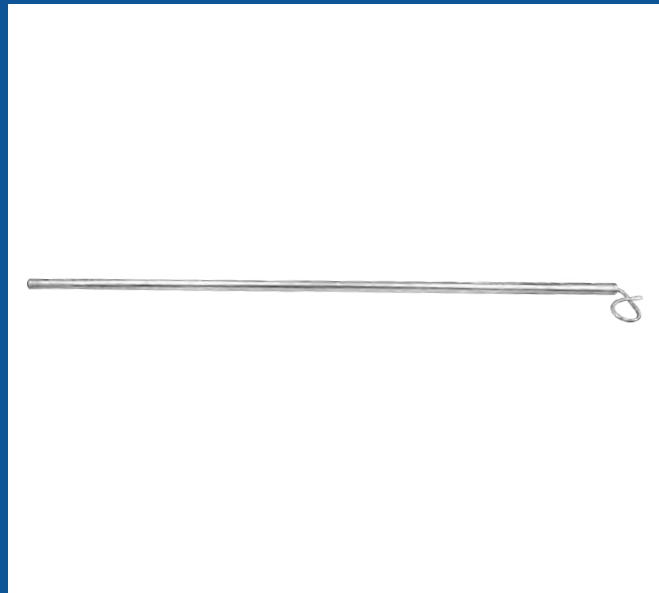
IV pole

Mounting bracket

Disposable breathing circuit

Reusable silicone tube

Water trap

Y connector

Adapter