



**Elektro**  
GENESIS

Cherish your life, Cherish your health!

***ELK-S9930T/S9940T, S9030,  
S9130, S9125, S9600  
NON-INVASIVE VENTILATOR***



**ELK-S9930T/S9940T**



**ELK-S9030**



**ELK-S9130**



**ELK-S9125**



**ELK-S9600**



# ELK-S9930T/S9940T

## Non-invasive Ventilator

### Application

The Non-invasive ventilator is used to provide Non-invasive ventilation support to treat adult patients and pediatric patients with respiratory insufficiency. It is suitable for both home use and hospital use.



### Features

- 10.4-inch TFT LCD touch screen, display breathing parameters, alarm information and waveforms.
- It is suitable for non-invasive ventilation patients with respiratory insufficiency and can be used in home and medical environments.
- High-performance in-built turbine.
- Trolley facilitates the transfer between hospital beds.
- The humidifier heats and humidifies the inhaled gas to improve comfort, and at the same time effectively prevent the complications caused by the formation of obstructions caused by airway drying.
- Lithium battery, capacity 2850mAh, can work independently for  $\geq 3$  hours.
- Low pressure oxygen can be connected externally.
- Noise  $\leq 45$ dB(A) at 10cmH<sub>2</sub>O pressure level.





# TECHNICAL SPECIFICATION

## Ventilation Mode

S/T T S CPAP PC HFNC AUTO AVAPS

## Ventilator Parameter Range

### AVPAS

ON/OFF

### Tidal Volume

200 mL~1500 mL

Increment: 10 mL

### Respiratory rate

3 bpm~40 bpm

Increment: 1 bpm

### Inspiratory time

0.0, 0.5 S~3.0 S

Increment: 0.1 S

### Inspiratory Pressure (IPAP)

S9940T : 4 cmH<sub>2</sub>O ~ 40 cmH<sub>2</sub>O)

S9930T : 4 cmH<sub>2</sub>O ~ 30 cmH<sub>2</sub>O)

Increment: 0.5 cmH<sub>2</sub>O

### Maximum Inspiratory Pressure (IPAPMAX)

S9940T: 4 cmH<sub>2</sub>O ~ 40 cmH<sub>2</sub>O)

S9930T: 4 cmH<sub>2</sub>O ~ 30 cmH<sub>2</sub>O)

Increment: 0.5 cmH<sub>2</sub>O

### Minimum Inspiratory Pressure (IPAPMAX)

S9940T: 4 cmH<sub>2</sub>O ~ 39.5 cmH<sub>2</sub>O

S9930T: 4 cmH<sub>2</sub>O ~ 29.5 cmH<sub>2</sub>O

Increment: 0.5 cmH<sub>2</sub>O

### Expiratory Pressure (EPAP)

S9940T: 4 cmH<sub>2</sub>O~35 cmH<sub>2</sub>O)

S9930T: 4 cmH<sub>2</sub>O~25 cmH<sub>2</sub>O)

Increment: 0.5 cmH<sub>2</sub>O

### Continuous positive airway pressure (CPAP)

4cmH<sub>2</sub>O~20 cmH<sub>2</sub>O

Increment: 0.5 cmH<sub>2</sub>O

### Pressure delay rise time

0 ~ 60 min

Increment: 1min

### Pressure rise time

automatic adjustment, 0.1 S~0.6 S

Increment: 0.1 S

## Oscillogram

P-T(Pressure-Time)

F-T(Flow-Time)

### Inspiratory sensitivity

Adjusting range: automatic adjustment, 1, 2, 3

Increment: 1

### Exhalation Sensitivity

Adjusting range:Auto Adjust, 1, 2, 3

Increment: 1

### Comfort

Adjusting range: Off, 1, 2, 3

Increment: 1

### Auto Function

On/Off

### Pressure Limits

S9940T

S, T, S/T, PC mode: 10 cmH<sub>2</sub>O~40 cmH<sub>2</sub>O

Increment: 0.5 cmH<sub>2</sub>O

CPAP mode: 10 cmH<sub>2</sub>O~20 cmH<sub>2</sub>O

Increment: 0.5 cmH<sub>2</sub>O

S9930T

S, T, S/T, PC mode: 10 cmH<sub>2</sub>O~30 cmH<sub>2</sub>O

Increment: 0.5 cmH<sub>2</sub>O

CPAP mode: 10 cmH<sub>2</sub>O~20 cmH<sub>2</sub>O

Increment: 0.5 cmH<sub>2</sub>O

## Monitoring Parameter

### Frequency (Freq)

0 ~ 100 bpm Resolution: 1 bpm

### Tidal Volume (VT)

0 ~ 2000 mL Resolution: 1 mL

### Minute ventilation volume (MV)

0 to 99 L/min Resolution: 0.1L/min

when ≥10 L/min; 0.1L/min when <10 L/min

0.01L/min

### Inspiratory time (Time)

0.0 ~ 3.0 S Resolution: 0.1S

### Respiratory pressure

0 ~ 40 cmH<sub>2</sub>O Resolution: 0.1 cmH<sub>2</sub>O

S9940T: 0 cmH<sub>2</sub>O~50 cmH<sub>2</sub>O

Increment: 0.1 cmH<sub>2</sub>O

S9930T: 0 cmH<sub>2</sub>O~40 cmH<sub>2</sub>O

Increment: 0.1 cmH<sub>2</sub>O

## Packing Size

Main components: L 550 \* W 380 \* H 400 mm

G.W. : 11 KG N.W. : 5.7 KG

Trolley: L 900 \* W 680 \* H 300 mm

G.W. : 23 KG N.W. : 13.5 KG

## Alarm and Protection

### Apnea alarm

Apnea time lasts for 10s (±2s), and there is no exhalation

### Breathing circuit disconnection alarm

when the breathing circuit is disconnected and lasts for 16 s (±1s)

### Low ventilation volume alarm

Range: Off, 0.5 L/min~15 L/min

### High Frequency Alarm

Range: Off, 2 bpm ~ 99 bpm

### Low Frequency Alarm

Range: Off, 1 bpm ~ 60 bpm

### Airway high pressure alarm(Range)

S9940T:S, T, S/T, PC mode:

10 cmH<sub>2</sub>O ~ 40 cmH<sub>2</sub>O

CPAP mode: 10 cmH<sub>2</sub>O~20 cmH<sub>2</sub>O

S9930T:S, T, S/T, PC mode:

10 cmH<sub>2</sub>O ~ 30 cmH<sub>2</sub>O

CPAP mode: 10 cmH<sub>2</sub>O~20 cmH<sub>2</sub>O

CPAP mode: 10 cmH<sub>2</sub>O~20 cmH<sub>2</sub>O

CPAP mode: 10 cmH<sub>2</sub>O~20 cmH<sub>2</sub>O

CPAP mode: 10 cmH<sub>2</sub>O~20 cmH<sub>2</sub>O

CPAP mode: 10 cmH<sub>2</sub>O~20 cmH<sub>2</sub>O

CPAP mode: 10 cmH<sub>2</sub>O~20 cmH<sub>2</sub>O

CPAP mode: 10 cmH<sub>2</sub>O~20 cmH<sub>2</sub>O

CPAP mode: 10 cmH<sub>2</sub>O~20 cmH<sub>2</sub>O

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CPAP mode: 10 cmH<sub>2</sub>O~20 cmH<sub>2</sub>O

CPAP mode: 10 cmH<sub>2</sub>O~20 cmH<sub>2</sub>O

### Power supply

100 V - 240 V, 50/60 HZ, 2.5 A MAX

### DC power supply

24 V (-15 % ~ +25 %), 3.33A

(adapter) (not provided)

### Internal power supply

18.5V, 2850MAH

### Environment temperature range

+5°C+40°C

### Humidity range

10 to 95 %

### Pressure Range

60kPa ~ 110kPa

60kPa ~ 110kPa

60kPa ~ 110kPa

60kPa ~ 110kPa

60kPa ~ 110kPa

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60kPa ~ 110kPa



# ELK-S9030

## Duo-level

### Non-invasive Ventilator

3.5 TFT LCD screen displays the Ventilation parameters and alarming information.

How to Fight COVID-19 with S9030 Portable Ventilator High-flow nasal catheter oxygen therapy or non-invasive mechanical ventilation:

When the patients have the problem of respiratory distress and or hypoxemia can't be believed after receiving standard oxygen therapy, then the high-flow nasal catheter oxygen therapy or non-invasive ventilation can be considered. If the condition can't be improved or worsened within the short time (1-2 hours), the tracheal intubation and invasive mechanical ventilation should be performed in time.

#### Feature and Trust Point

- 3.5 inch LCD screen displays the ventilation parameters and alarm information.
- Multiple working modes: CPAP, S, S/T, T, PC adapt to wide range patient.
- Integration breathing circuit design ensures easy operating and keeps tidy.
- Shutting down machine is not required while refilling water into humidifier
- Over 10000 units are installed in the world every year.
- 23 years of professional production experience to ensure product quality.
- Easy to move, carry and use





# SPECIFICATION

## Ventilation Mode

CPAP, S, T, S/T PC AVAPS AUTO

Frequency	Adjusting range: 3-40bpm Increment: 1/min
Tidal Volume	200ml-1500ml
Inspiration time	Adjusting range: 0-3s Increment: 0.1s
IPAP	Adjusting range: 4cmH <sub>2</sub> O-30cmH <sub>2</sub> O Increment: 0.5cmH <sub>2</sub> O
EPAP	Adjusting range: 4cmH <sub>2</sub> O-25cmH <sub>2</sub> O Increment: 0.5cmH <sub>2</sub> O
CPAP	Adjusting range: 4cmH <sub>2</sub> O-20cmH <sub>2</sub> O Increment: 0.5cmH <sub>2</sub> O
Ramp time	Adjusting range: 0-60min Increment: 1min
Rise time	Adjusting range: 0.1s-0.5s Increment: 0.1s
Inspiration trigger	Adjusting range: auto adjusting, 1-3 Increment: 1
Expiration trigger	Adjusting range: auto adjusting, 1-3 Increment: 1
Flex	Adjusting range: OFF, 1-3 Increment: 1
Humidifier	Adjusting range: 0-5 Increment: 1
Pressure limit	20cmH <sub>2</sub> O-35cmH <sub>2</sub> O

## Using Condition

Storage conditions	20°C - +60°C
Relative humidity	15%-95%
Atmosphere pressure	500hPa-1060hPa

## Oscillogram

Airway pressure histogram

## Monitoring Parameter

Frequency	0 bpm ~ 100 bpm
Tidal volume	0 mL ~ 2000 mL
Minute Volume	0 L/min ~ 99 L/min
Inspiration Time	0.0 s ~ 3.0 s
IPAP	0 cmH <sub>2</sub> O ~ 40 cmH <sub>2</sub> O
EPAP	0 cmH <sub>2</sub> O ~ 40 cmH <sub>2</sub> O
CPAP	0 cmH <sub>2</sub> O ~ 40 cmH <sub>2</sub> O

## Alarm and Protection

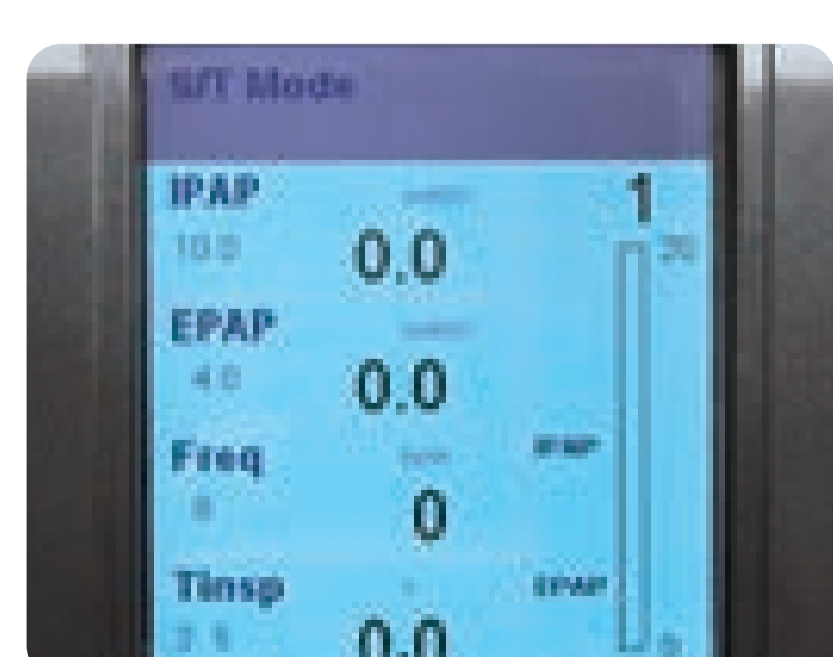
Low ventilation	0-15L/min
High airway pressure	20cmH <sub>2</sub> O-30cmH <sub>2</sub> O
High frequency	1/min-99/min
Low frequency	1/min-60/min
Suffocation warning	8s-12s no spontaneous ventilation
The maximum limited pressure	<12.5 kPa
Pipe detached	Pipe detached 16s

## Working Condition

Environmental temperature	5°C-35°C
Relative humidity	15%-95%
Atmosphere pressure	830hPa-1060hPa

## Carton Packing Size

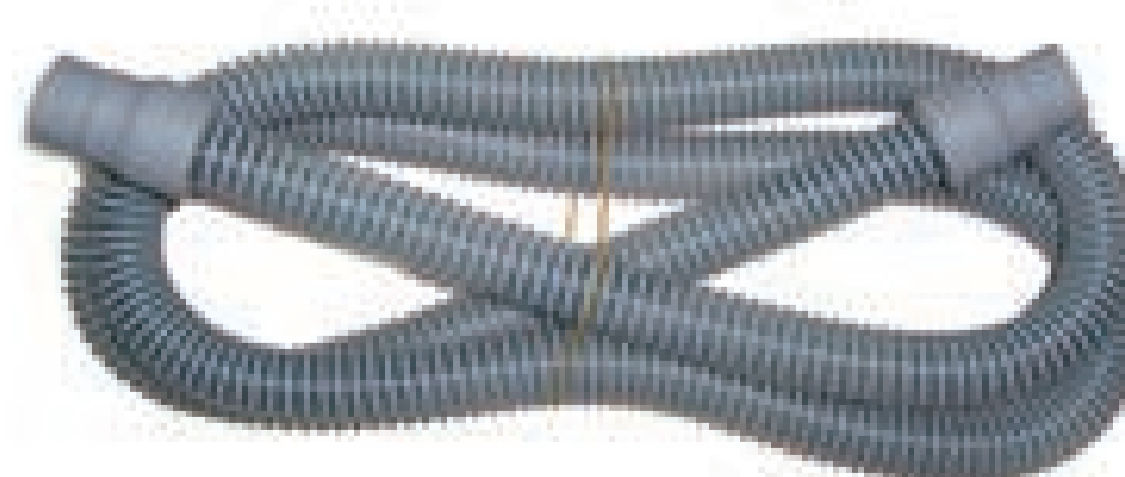
Main engine	L 345*W 300*H 295mm
G.W. :4.34KG	N.W.:1.96KG
Humidifier	L 205*W 200*H 335mm
G.W. :2.5KG	N.W.:2.25KG
Trolley	L 700*W 515*H 165mm
G.W. :8.7KG	N.W.:7.32KG



3.5 inch screen



Humidifier



Breathing tube



Mask



Bag



# ELK-S9130 Non-invasive Ventilator

## Portable Ventilator Expert for COVID-19

The Non-invasive Ventilator makes a good performance in sleep center, home and other departments. From high to low acuity, simple to complex cases, adult to geriatric patients. Our Non-invasive Ventilator offer you the choices you need in ventilation, monitoring and technique. What's more, our expertise in ventilation is based on rich 23-year history of developing anesthesia solutions that meet your needs.



Main Body

### Feature

- 4.3 inch color LCD screen displays the Ventilation parameters and alarming information. 15.6 inch 90 degrees rotates screen is optional.
- Integrate breathing circuit design, ensure easy operating and keep tidy.
- Multiple working modes such as volume control and pressure limitation, adapt to wide range patient.
- Multiple parameters monitoring interface, make every parameter clear, let users know the patient conditions in all aspects.
- Optimized design and fine manufacture, cooperating sound absorption composite, unique super mute design.
- Unique shuttle knob design, easy to operate and use in house.
- No need to add water by stopping the machine, very easy to use.
- With battery support at least one hour.
- With trolley for flexible moving.
- With medical humidifier for more accurate temperature control and comfortable breathing.

# TECHNICAL SPECIFICATION

## Ventilation Mode

CPAP, S, T, S/T, PC, AVAPS, AUTO

## Parameter

Frequency	Adjusting range: 3/min ~ 40/min Increment: 1/min
Tidal Volume	200 ~ 1500 ml
Inspiration time	Adjusting range: 0 ~ 3 s Increment: 0.1 s
IPAP	Adjusting range: 4 cmH <sub>2</sub> O ~ 30 cmH <sub>2</sub> O Increment: 0.5 cmH <sub>2</sub> O
EPAP	Adjusting range: 4 cmH <sub>2</sub> O ~ 25 cmH <sub>2</sub> O Increment: 0.5 cmH <sub>2</sub> O
CPAP	Adjusting range: 4 cmH <sub>2</sub> O ~ 20 cmH <sub>2</sub> O Increment: 0.5 cmH <sub>2</sub> O
Ramp time	Adjusting range: 0 ~ 60 min Increment: 1 min
Rise time	Adjusting range: 0.1 s ~ 0.6 s Increment: 0.1 s
Inspiration trigger	Adjusting range: auto adjusting, 1 ~ 3 Increment: 1
Expiration trigger	Adjusting range: auto adjusting, 1 ~ 3 Increment: 1
Flex	Adjusting range: OFF, 1 ~ 3 Increment: 1
Humidifier	Adjusting range: 0 ~ 5 Increment: 1
Pressure limit	20 ~ 35 cmH <sub>2</sub> O

## Using Condition

Storage conditions	-20°C - +60°C
Relative humidity	15%-95%
Atmosphere pressure	500hPa-1060hPa

## Oscillogram

Airway pressure - time

Flow - time

## Monitoring Parameter

Frequency	0 bpm ~ 100 bpm
Tidal volume	0 mL ~ 2000 mL
Minute Volume	0 L/min ~ 99 L/min
Inspiration Time	0.0 s ~ 3.0 s
IPAP	0 ~ 40 cmH <sub>2</sub> O
EPAP	0 ~ 40 cmH <sub>2</sub> O
CPAP	4 ~ 20 cmH <sub>2</sub> O

## Alarm and Protection

Low ventilation	0-15L/min
High airway pressure	20cmH <sub>2</sub> O-30cmH <sub>2</sub> O
High frequency	1/min-99/min
Low frequency	1/min-60/min
Suffocation warning	8s-12s no spontaneous ventilation
The maximum limited pressure	<12.5 kPa
Pipe detached	Pipe detached 16s
Power failure alarm	Low tidal volume Alarm (under AVAPS)

## Working Condition

Environmental temperature	5°C-35°C
Relative humidity	15%-95%
Atmosphere pressure	830hPa-1060hPa



# ELK-S9125 Non-invasive Ventilator

## Portable Ventilator Expert for COVID-19

The Non-invasive Ventilator makes a good performance in sleep center, home and other departments. From high to low acuity, simple to complex cases, adult to geriatric patients. Our Non-invasive Ventilator offer you the choices you need in ventilation, monitoring and technique. What's more, our expertise in ventilation is based on anesthesia solutions that meet your needs.



Main Body



### Feature

- 4.3 inch color LCD screen displays the Ventilation parameters and alarming information. 15.6 inch 90 degrees rotates screen is optional.
- Integrate breathing circuit design, ensure easy operating and keep tidy.
- Multiple working modes such as volume control and pressure limitation, adapt to wide range patient.
- Multiple parameters monitoring interface, make every parameter clear, let users know the patient conditions in all aspects.
- Optimized design and fine manufacture, cooperating sound absorption composite, unique super mute design.
- Unique shuttle knob design, easy to operate and use in house.
- No need to add water by stopping the machine, very easy to use.
- With battery support at least one hour.
- With trolley for flexible moving.
- With medical humidifier for more accurate temperature control and comfortable breathing.



# TECHNICAL SPECIFICATION

## Ventilation Mode

CPAP, S, T, S/T, PC, AVAPS, AUTO

## Parameter

Frequency	Adjusting range: 3/min ~ 40/min Increment: 1/min
Tidal Volume	200 ~ 1500 ml
Inspiration time	Adjusting range: 0 ~ 3 s Increment: 0.1 s
IPAP	Adjusting range: 4 cmH <sub>2</sub> O ~ 25 cmH <sub>2</sub> O Increment: 0.5 cmH <sub>2</sub> O
EPAP	Adjusting range: 4 cmH <sub>2</sub> O ~ 25 cmH <sub>2</sub> O Increment: 0.5 cmH <sub>2</sub> O
CPAP	Adjusting range: 4 cmH <sub>2</sub> O ~ 20 cmH <sub>2</sub> O Increment: 0.5 cmH <sub>2</sub> O
Ramp time	Adjusting range: 0 ~ 60 min Increment: 1 min
Rise time	Adjusting range: 0.1 s ~ 0.6 s Increment: 0.1 s
Inspiration trigger	Adjusting range: auto adjusting, 1 ~ 3 Increment: 1
Expiration trigger	Adjusting range: auto adjusting, 1 ~ 3 Increment: 1
Flex	Adjusting range: OFF, 1 ~ 3 Increment: 1
Humidifier	Adjusting range: 0 ~ 5 Increment: 1
Pressure limit	20 ~ 35 cmH <sub>2</sub> O

## Using Condition

Storage conditions	-20°C - +60°C
Relative humidity	15%-95%
Atmosphere pressure	500hPa-1060hPa

## Oscillogram

Airway pressure - time

Flow - time

## Monitoring Parameter

Frequency	0 bpm ~ 100 bpm
Tidal volume	0 mL ~ 2000 mL
Minute Volume	0 L/min ~ 99 L/min
Inspiration Time	0.0 s ~ 3.0 s
IPAP	0 ~ 40 cmH <sub>2</sub> O
EPAP	0 ~ 40 cmH <sub>2</sub> O
CPAP	4 ~ 20 cmH <sub>2</sub> O

## Alarm and Protection

Low ventilation	0-15L/min
High airway pressure	20cmH <sub>2</sub> O-30cmH <sub>2</sub> O
High frequency	1/min-99/min
Low frequency	1/min-60/min
Suffocation warning	8s-12s no spontaneous ventilation
The maximum limited pressure	<12.5 kPa
Pipe detached	Pipe detached 16s
Power failure alarm	Low tidal volume Alarm (under AVAPS)

## Working Condition

Environmental temperature	5°C-35°C
Relative humidity	15%-95%
Atmosphere pressure	830hPa-1060hPa



# ELK-S9600 Sleep Therapy System

## Non-invasive Ventilator

### Application

The Bipap System makes a good performance in sleep center, home and other departments. From high to low acuity, simple to complex cases, adult to geriatric patients, Superstar Medical Bipap System offers you the choices you need in ventilation, monitoring and technique.

### Features and Trust Point

- 3.5 inch LCD screen displays the ventilation parameters and alarm information.
- Multiple working modes: CPAP, S, S/T, T adapt to wide range patient.
- Integration breathing circuit design ensures easy operating and keeps tidy.
- Shutting down is not required while refilling water.
- Over 10000 units are installed in the world every year. Simplicity: Portable and friendly use.

### Suitable Patient

- Simple obesity causes respiratory tract (nose and throat) stenosis snorers.
- Chronic rhinitis, pharyngitis, turbinate hypertrophy, septum bends, tongue root hypertrophy, uvula hypertrophy, tonsil hypertrophy, pharynx hypertrophy cause upper respiratory tract stenosis snorers.
- Congenital short jaw snorers (small chin) lead to the upper respiratory tract stenosis.
- All snoring (snoring) accompanied by sleep apnea, suffocation, stopped breathing, low ventilation, oxygen, and low blood oxygen content.
- All patients who get medical monitoring and diagnosis that suffering from slight to severe obstructive sleep apnea syndrome.



### Health Tip

The Apnea-Hypopnea Index or Apnoea-Hypopnoea Index (AHI) is an index used to indicate the severity of sleep apnea. It is represented by the number of apnea and hypopnea events per hour of sleep. The apneas (pauses in breathing) must last for at least 10 seconds and be associated with a decrease in blood oxygenation. Combining AHI and oxygen desaturation gives an overall sleep apnea severity score that evaluates both the number of sleep disruptions and the degree of oxygen desaturation (low oxygen level in the blood).

The AHI is calculated by dividing the number of apnea events by the number of hours of sleep.

Normal:  $AHI < 5$

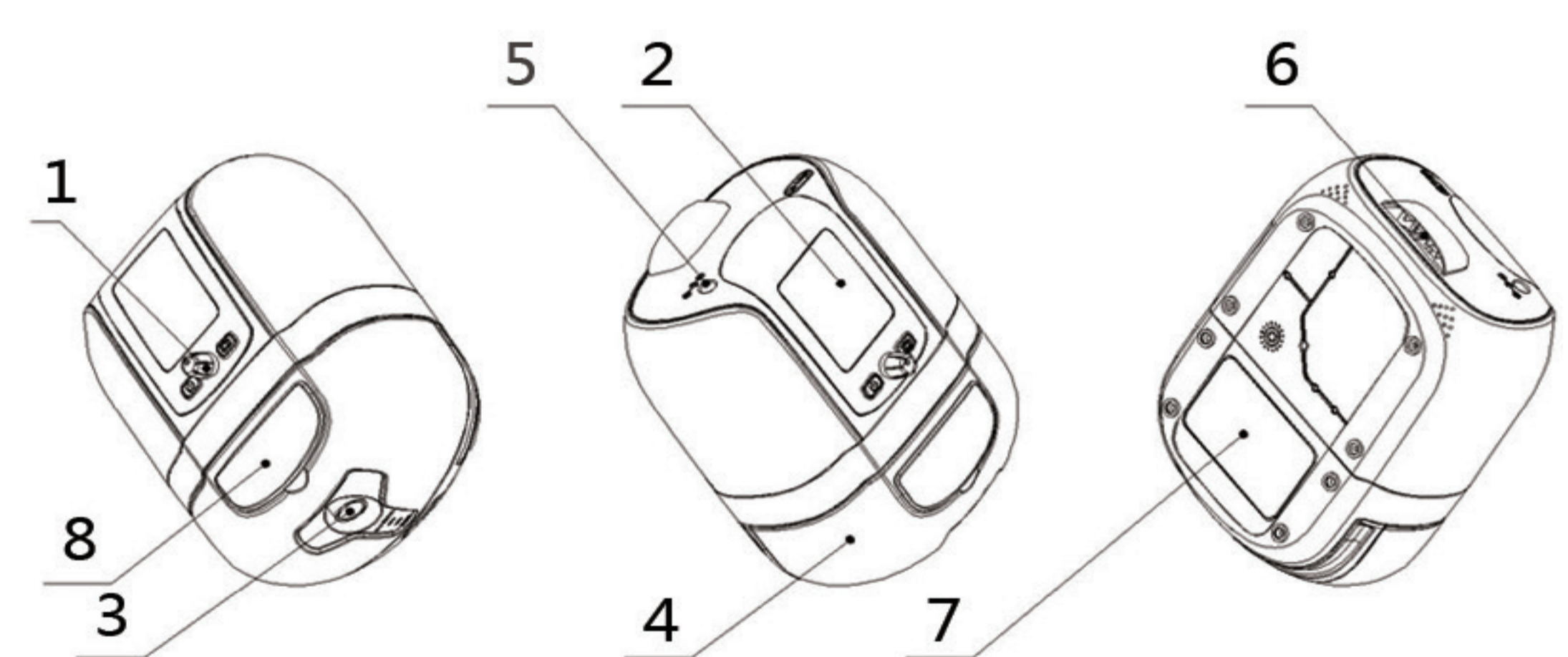
Mild sleep apnea:  $5 \leq AHI < 15$

Moderate sleep apnea:  $15 \leq AHI < 30$

Severe sleep apnea:  $AHI \geq 30$

For children, because of their different physiology, an AHI in excess of 1 is considered abnormal.

### Structure of Product



1. Press button (modify the working parameter and control the working status)
2. Display screen (display system setting, monitoring parameter, waveform, alarm an etc.)
3. Inspiratory port (connect 1.8m breathing pipe), display the water level of humidifier
4. Humidifier
5. DC power port (connect 24V DC power)
6. Filter control and air inlet
7. Label of equipment
8. Cap of the humidifier



# SPECIFICATION

## Ventilation Mode

CPAP, S, T, S/T	
Frequency	Adjusting range: 3/min-40/min Increment: 1/min
Inspiration time	Adjusting range: 0-3s Increment: 0.1s
IPAP	Adjusting range: 4cmH <sub>2</sub> O-25cmH <sub>2</sub> O Increment: 0.5cmH <sub>2</sub> O
EPAP	Adjusting range: 4cmH <sub>2</sub> O-20cmH <sub>2</sub> O Increment: 0.5cmH <sub>2</sub> O
CPAP	Adjusting range: 4cmH <sub>2</sub> O-20cmH <sub>2</sub> O Increment: 0.5cmH <sub>2</sub> O
Ramp time	Adjusting range: 0-60min Increment: 1min
Rise time	Adjusting range: 0.1s-0.6s Increment: 0.1s
Inspiration trigger	Adjusting range: auto adjusting, 1-3 Increment: 1
Expiration trigger	Adjusting range: auto adjusting, 1-3 Increment: 1
Flex	Adjusting range: OFF, 1-3 Increment: 1
Humidifier	Adjusting range: 0-5 Increment: 1
Pressure Limit	0-30cmH <sub>2</sub> O

## Packing Size

Carton packing size	L 285*W 350*H 290mm
G.W.	4.34KG
N.W.	1.96KG

## Oscillogram

Airway pressure histogram
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## Monitoring Parameter

Frequency	0 bpm ~ 100 bpm
Tidal volume	0 mL ~ 3000 mL
Minute Volume	0 L/min ~ 99 L/min
Inspiration Time	0.0 s ~ 3.0 s
IPAP	0 cmH <sub>2</sub> O ~ 40 cmH <sub>2</sub> O
EPAP	0 cmH <sub>2</sub> O ~ 40 cmH <sub>2</sub> O
CPAP	0 cmH <sub>2</sub> O ~ 40 cmH <sub>2</sub> O

## Alarm and Protection

Low ventilation	0-15L/min
High airway pressure	20cmH <sub>2</sub> O-30cmH <sub>2</sub> O
High frequency	1/min-99/min
Low frequency	1/min-60/min
Suffocation warning	8s-12s no spontaneous ventilation
The maximum limited pressure	<12.5 kPa
Pipe detached	Pipe detached 16s

## Working Condition

Environmental temperature	5°C-35°C
Relative humidity	15%-95%
Atmosphere pressure	830hPa-1060hPa

## Using Condition

Storage conditions	-20°C - +35°C
Relative humidity	15%-95%
Atmosphere pressure	500hPa-1060hPa