



VG70 Product Training



International Service Department



Beijing Aeonmed Co., Ltd.



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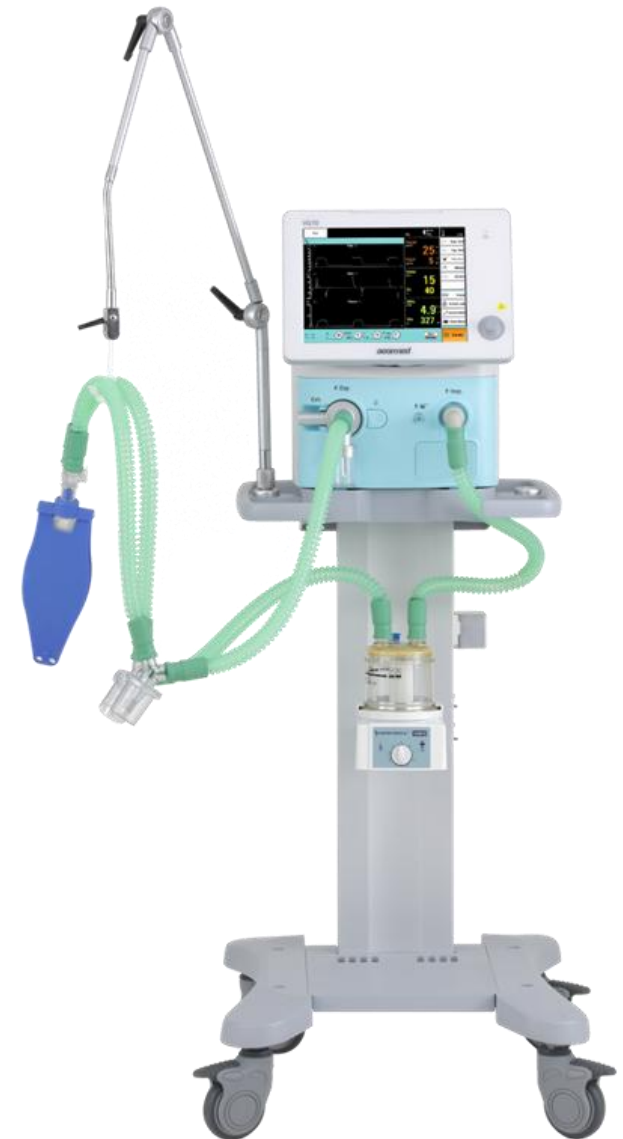
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Product Description

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- 1、 The first turbine ventilator in China.**
- 2、 With Invasive and Non-Invasive ventilation function.**
- 3、 Can be used on Infant ,Children and Adults**
- 4、 Approved by CFDA & CE**
- 5、 Wide application in General ICU, RICU, EICU, and for intra-hospital transport**

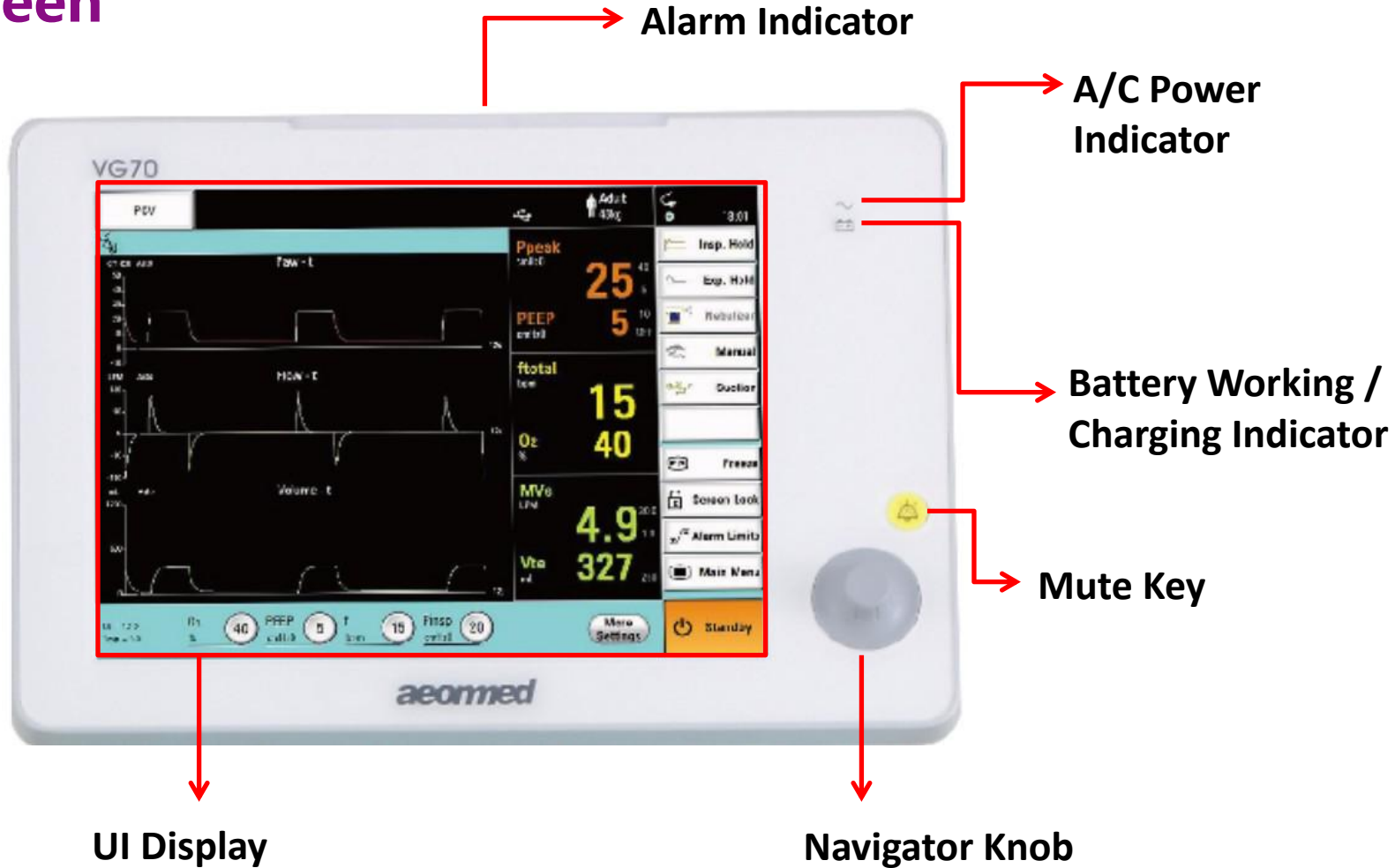




Product Configuration & Main Functions

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1、Screen

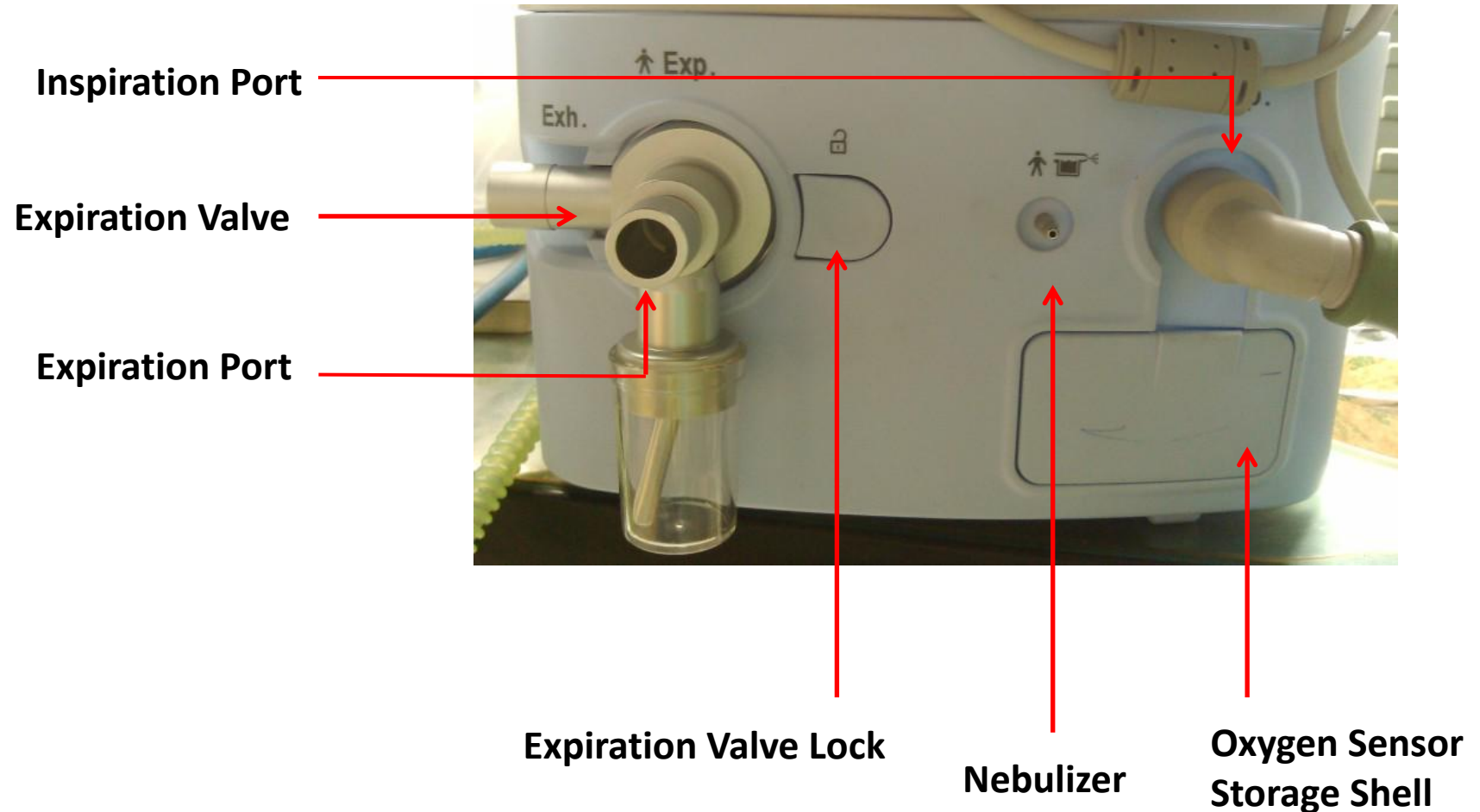




Product Configuration & Main Functions

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2、Main Unit

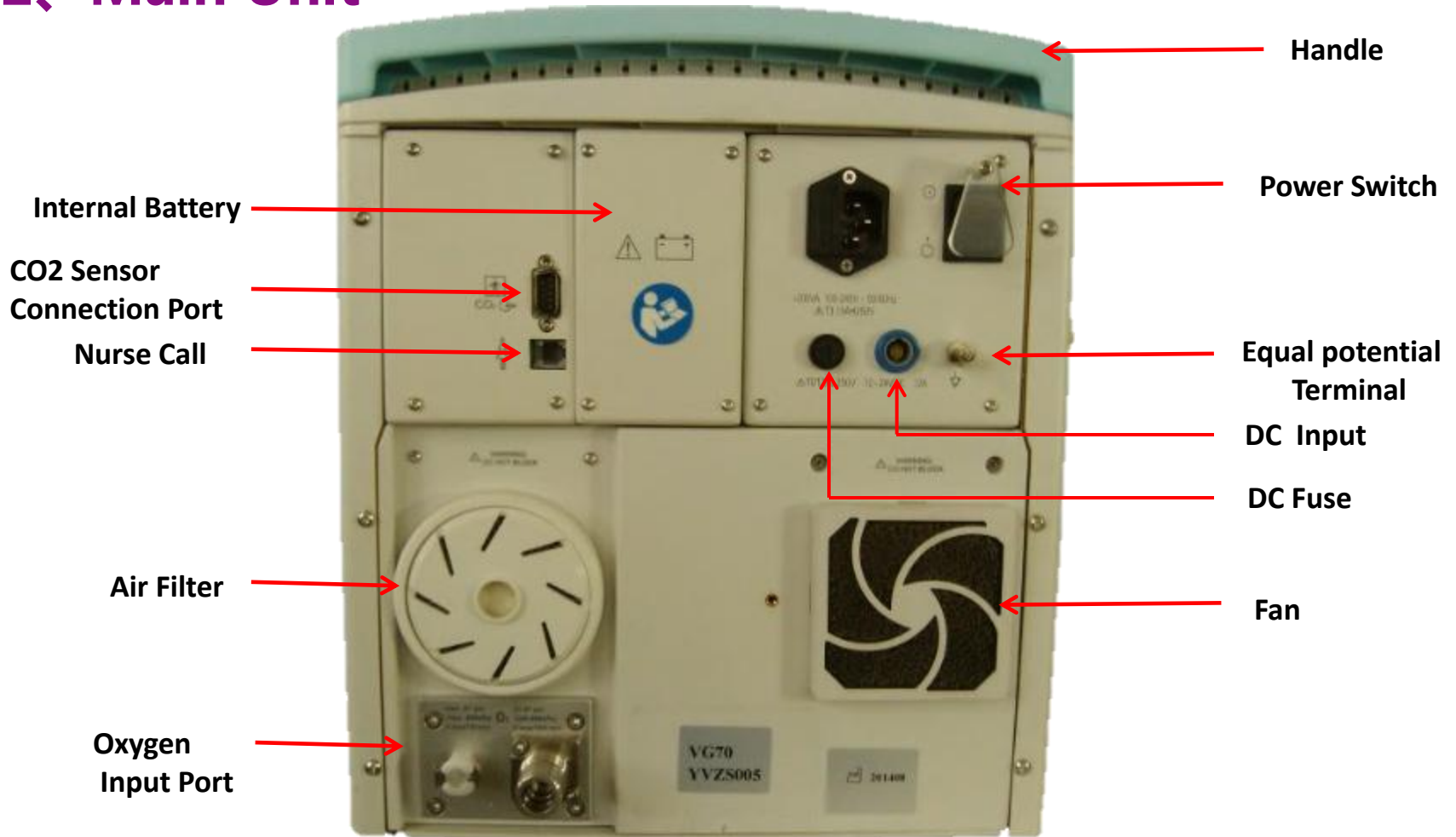




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2、Main Unit

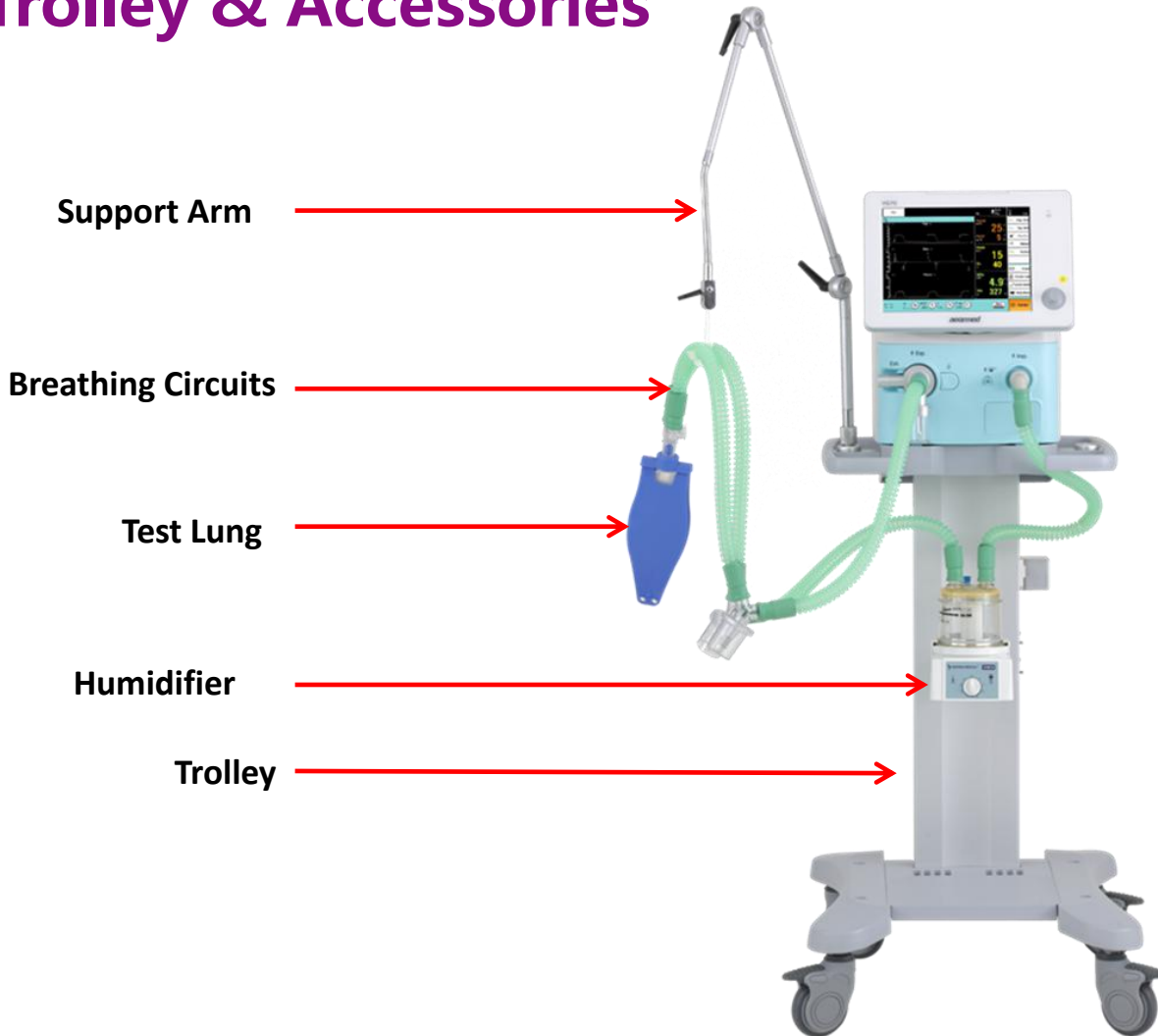




Product Configuration & Main Functions

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3、Trolley & Accessories





4、 Main Function –Ventilation Modes (1)

Invasive Ventilation Modes:

VCV, PCV, SIMV (V, P, PRVC), PRVC, SPONT/CPAP, BIVENT

Non - Invasive Ventilation Modes:

NIV/CPAP, NIV-T, NIV-S/T



4、 Main Function –Ventilation Modes (2)

Ventilation Strategy:



Weaning Parameter: RSBI (Rapid-Shallow Breathing Index)

WOB (Work of breathing during lung)



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4、 Main Function –Alarm (1)

5.1 Sound/Light/Color , 3 kind of Indicators

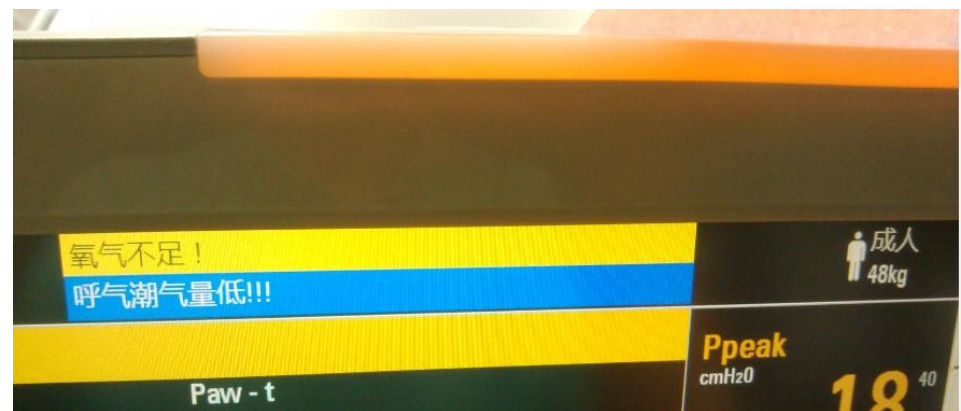
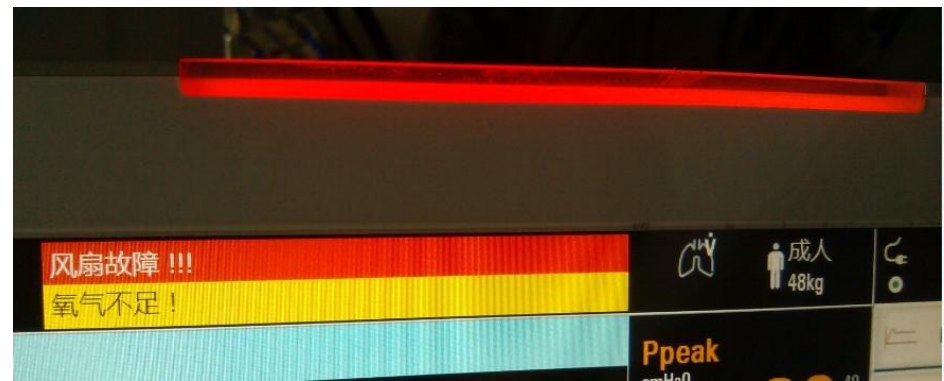
5.2 High level /Mid-Level
And low level

5.3 After disappearing
the Alarm can be reviewed

Question:

What will happen if many
alarms Occur ?

As priority level





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4、 Main Function –Alarm (2)

PCV **Adult 48kg** **0:01**

Paw - t **Flow - t**

Ppeak 27 **PEEP** 5 **ftotal**

Main Menu

Mode	Alarm Limits	Monitoring Data	Lung Mechanics	Log	System
Paw cmH ₂ O	Lower: 5 Upper: 40	MVe LPM	PEEP cmH ₂ O	Lower: OFF Upper: 10	Alarm Volume: 20%
MVe LPM	Lower: 1.0 Upper: 30.0	Vte mL	Tapnea s	Lower: 20 Upper: 20	SpeakerTest
Vte mL	Lower: 250 Upper: 250	SpO ₂ %	fspont bpm	Lower: OFF Upper: OFF	Alarm Log
SpO ₂ %	Lower: 94 Upper: 100		etCO ₂ mmHg	Lower: 30 Upper: 49	

Right Panel: Insp. Hold, Exp. Hold, Nebulizer, Manual, Suction, Freeze, Screen Lock, Alarm Limits, Main Menu, Standby



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4、 Main Function –Monitoring Many ways to monitor



PCV Adult 48kg 0:02

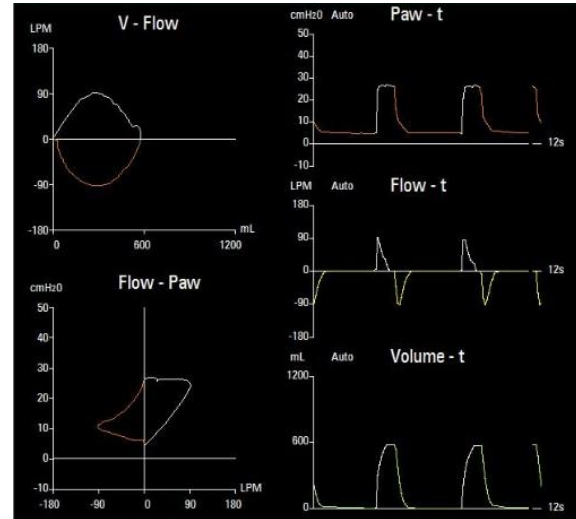
Ppeak 27 cmHz0
PEEP 5 cmHz0
ftotal bpm

Insp. Hold
Exp. Hold
Nebulizer
Manual
Suction

Main Menu

Mode	Alarm Limits	Monitoring Data	Lung Mechanics	Log	System
Ppeak cmHz0	27	Vti mL	583	Rexp cmHz0/L/s	14
Pplat cmHz0	26	Vte mL	585	Cdyn mL/cmHz0	26
PEEP cmHz0	5	MVe LPM	7.9	RSBI bpm/L	0
Pmean cmHz0	10	MVespond LPM	0.0	WOB J/L	6
Pmin cmHz0	4	ftotal bpm	15	I:E	1:3.1
O ₂ %	--	fspont bpm	0	etCO ₂ mmHg	--

Freeze
Screen Lock
Alarm Limits
Main Menu
Standby



Pmin 5 cmHz0

Rexp 7 cmHz0/L/s

MVe LPM

ftotal bpm

fspont bpm

Vti 36 mL

Cdyn
FiCO₂
Tispond
etCO₂
WOB
RSBI
MVespond
Pmean

OFF



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4、 Main Function –Parameter Setting (1)

How to set ?

The screenshot shows the PCV (Paw Catheter Ventilation) parameter setting screen. The top status bar indicates 'PCV' mode, 'Adult 48kg' patient weight, and a timer at '0:00'. The main display area is divided into three sections: two waveforms and a parameter summary.

Waveforms:

- Paw - t:** Shows pressure (cmH₂O) over time. The y-axis ranges from -10 to 50. The x-axis shows a 12s interval. The waveform shows a square wave pattern.
- Flow - t:** Shows flow (LPM) over time. The y-axis ranges from -180 to 180. The x-axis shows a 12s interval. The waveform shows a square wave pattern.

Parameter Summary:

- Ppeak:** 27 cmH₂O
- PEEP:** 5 cmH₂O
- ftotal:** (value partially obscured)

Main Menu:

- Mode: VCV, SIMV, **PCV**, PRVC, SPONT CPAP, BIVENT
- Setting: Trigger, TC
- Parameters:
 - f: 15 bpm
 - Pinsp: 20 cmH₂O
 - PEEP: 5 cmH₂O
 - O₂: 40 %
 - T_{insp}: 1.0 s
 - T_{slope}: 0.1 s
 - I:E = 1:3.0
 - T_{exp} = 3.0

Right Side Controls:

- Insp. Hold
- Exp. Hold
- Nebulizer
- Manual
- Suction
- Freeze
- Screen Lock
- Alarm Limits
- Main Menu
- Standby

Bottom Bar:

- Accept
- TC OFF



4、 Main Function –Auxiliary Function (1)

Inspiratory Hold

Inspiratory hold is available within the period of mandatory ventilation and in all modes except full spontaneous breath modes as SPONT/PSV, NIV/CPAP.

Press the Inspiratory Hold key during the Inspiratory phase. The operation becomes active when a message stating “Inspiratory Hold” appears with a countdown timer. Keep pressing the Inspiratory Hold key. The expiratory phase will not start until the key is released or after 30 seconds, whichever comes first. If the button is not released after 30 seconds, the system will go to Expiratory state automatically and display a message “Inspiratory hold interrupted!”, as shown in Figure 6-69.



4、 Main Function –Auxiliary Function (2)

Expiratory Hold

Expiratory hold is available in all modes. In Expiratory phase, press the Expiratory hold button and the expiratory operation will become active when a message “Expiratory Hold” appears with a countdown timer. The ventilator will stay in the expiratory phase and not transition to the inspiratory phase until either 1) the key is released or 2) 30 seconds have elapsed.

When selected during the expiratory phase, the ventilator will stay in the expiratory phase and not transfer to the inspiratory phase until either 1) the key is released and the current expiratory phase is completed or 2) 30 seconds have elapsed.

Pressing the Expiratory Hold key for more than 30 seconds will cause a message to be displayed. See example in Figure 6-70. Only one expiratory hold will be produced per key press. When Inspiratory hold key is released or if the key is not released after 30 seconds, the key background will revert to normal.

Expiratory Hold Interrupted !



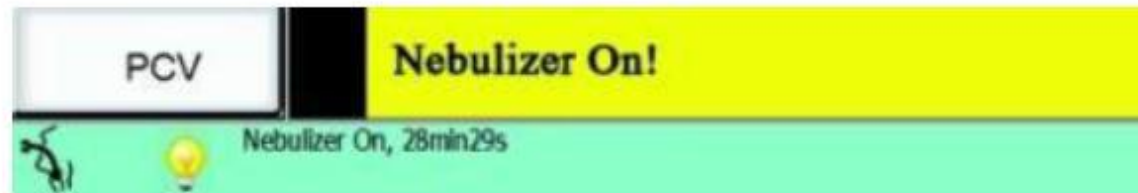
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4、 Main Function –Auxiliary Function (3)

Nebulizer

The nebulizer function is available in all ventilation modes. Press the Nebulizer key turning the key background color to yellow. Meanwhile, a low level alarm “Nebulizer On” is displayed and the message “Nebulizer On, MM min SS s” with countdown timer is displayed in the message area, as shown in Figure 6-71.





4、 Main Function –Auxiliary Function (4)

Manual Trigger

Manual Trigger is available in all ventilation modes. Press the manual trigger key to initiate a manual breath control as follows, as shown in Figure 6-72.

For VCV, PRVC, SIMV (VCV): set V_t and T_{insp} , to control ventilation.

For BIVENT: set P_{high} and P_{low} , to control ventilation switchover.

For PCV, SIMV (PCV): Set P_{insp} , to control ventilation.

For modes or breath phase with PSV, set P_{supp} , to control ventilation.

Manual trigger is also available during backup ventilation period. When initiated during backup mode, the ventilator will remain in backup mode.



4、 Main Function –Auxiliary Function (5)

Suction

Suction support is available in ventilation modes. Pressing Suction button will turn the button color to yellow signifying the start of Suction support as shown in Figure 6-73.

If the system detects that the circuit is disconnected, ventilation will be interrupted. During sputum aspiration, all physiological alarms will be off and audio alarms will be suspended.

The Ventilator will provide a low flow rate when the circuit is disconnected in order to detect reconnection of circuit. When pressing the suction support key, a message will be displayed in the message prompt area, as shown in Figure 6-74.



100% Oxygen before suction, breathing circuit can be disconnected, 2 min 35 s

Figure 6-74



4、 Main Function –Auxiliary Function (6)

Freeze

Press “Freeze” key and the current real-time waveforms and loops freeze simultaneously in the main screen when waveform drawing is completed. See example in Figure 6-76. Turning the encoder knob moves the cursor over each point of the waveform and the corresponding measured value is displayed. Pressing Freeze again will restart the waveform and any information displayed during waveform freeze will disappear, and the Freeze key color returns to normal. Waveform Freeze will automatically end 3 minutes after touching the freeze key. ↵



Product configuration and main function



4、 Main Function –Other Functions

PCV

Adult 48kg

0:15

You have entered standby.

Standby

Ppeak
cmH₂O 40

PEEP
cmH₂O 5

ftotal
10

Standby

New Patient Patient Settings Patient Information

Previous Patient

Name

Medical Record No.

Admission Date 2015 / 3 / 24 (YYYY/MM/DD)

Birth Date 2015 / 3 / 24 (YYYY/MM/DD)

Height 150 cm

a	b	c	d	e	f	g	1	2	3
h	i	j	k	l	m	n	4	5	6
o	p	q	r	s	t	u	7	8	9
v	w	x	y	z	-	/	0	←	
caps			space						

Clear

Insp. Hold

Exp. Hold

Nebulizer

Manual

Suction

Freeze

Screen Lock

Alarm Limits

Main Menu

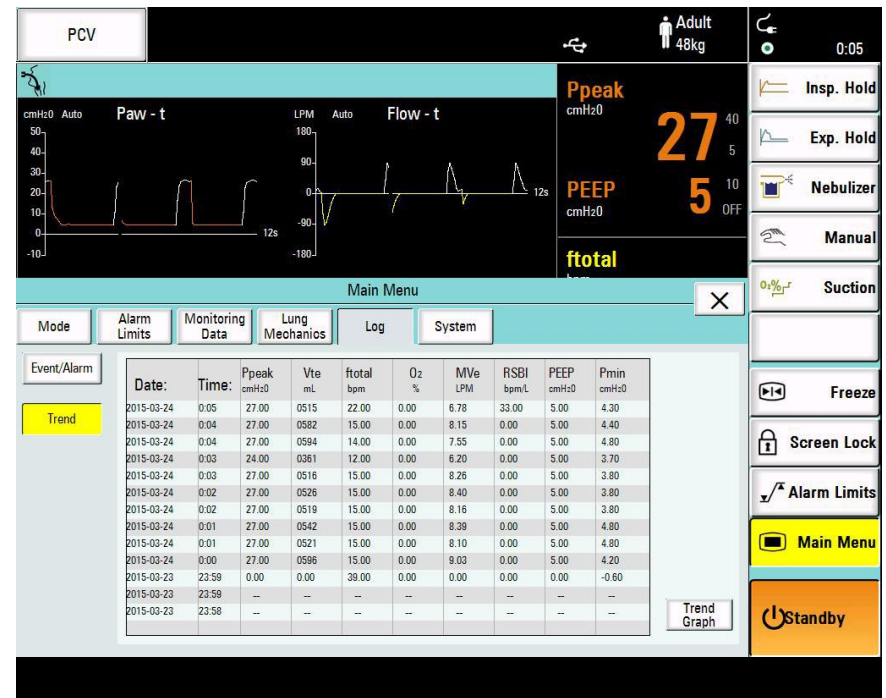
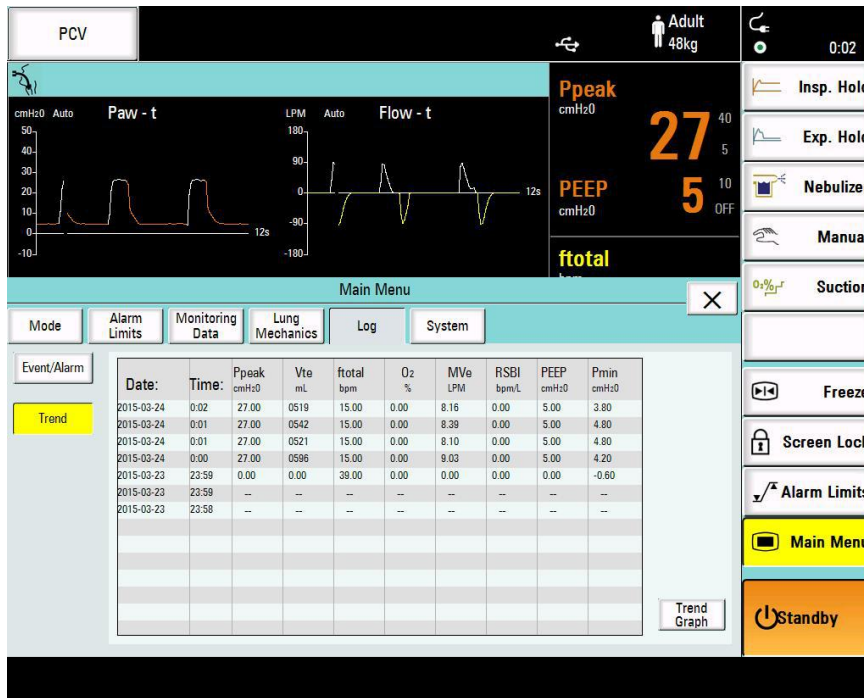
Start Ventilation



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4、 Main Function –Other Functions

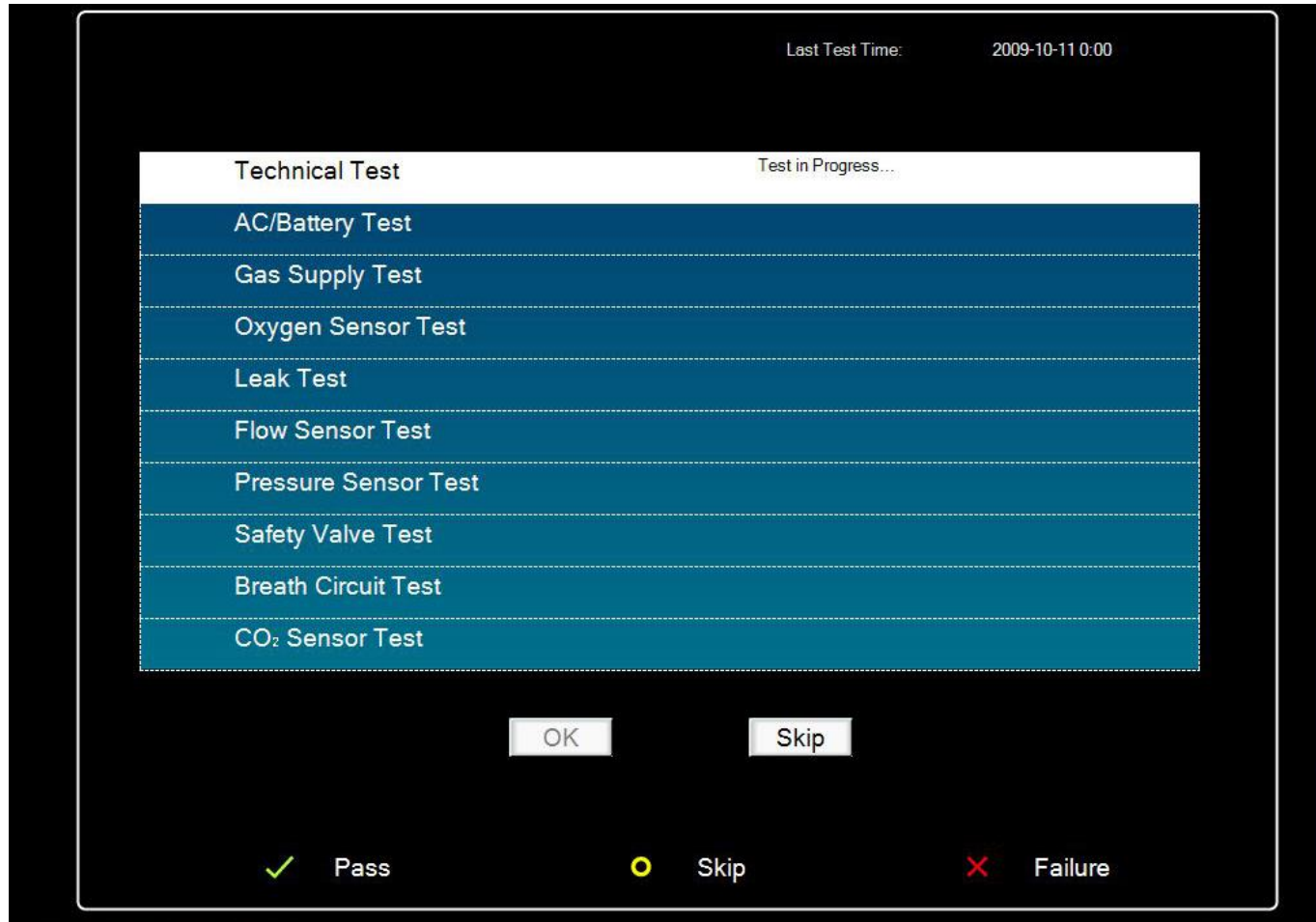




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4、 Main Function –Other Functions





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4、Main Function –Other Functions





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4、 Main Function –Other Functions

The screenshot displays the neomed ventilator's main menu interface. At the top, the mode is set to **PCV** (Pressure Controlled Ventilation). Patient information shows **Adult 48kg**. The top right corner displays a timer at **0:01**.

Monitoring data is shown in two graphs: **Paw - t** (Airway Pressure) and **Flow - t** (Flow). The **Paw - t** graph shows pressure in cmH₂O (0 to 50) over time. The **Flow - t** graph shows flow in LPM (0 to 180) over time. A 12s scale is indicated for both.

Key parameters are displayed in large numbers: **Ppeak 27** cmH₂O, **PEEP 5** cmH₂O, and **ftotal**. A vertical toolbar on the right contains various function buttons: **Insp. Hold**, **Exp. Hold**, **Nebulizer**, **Manual**, **Suction**, **Freeze**, **Screen Lock**, **Alarm Limits**, **Main Menu** (highlighted in yellow), and **Standby**.

The **Main Menu** is open, showing tabs for **Mode**, **Alarm Limits**, **Monitoring Data**, **Lung Mechanics**, **Log**, and **System**. Under **Mode**, options include **VCV**, **SIMV**, **PCV** (selected), **SPONT CPAP**, **PRVC**, and **BIVENT**. Under **Setting**, there are buttons for **Tube Compensation** (ON/OFF), **Tube Type** (ET/TT), **Compensation %** (80), and **Diameter mm** (7.5). An **Accept** button is at the bottom left, and a **TC OFF** indicator is at the bottom center.



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4、Main Function –Other Functions

The interface displays the following information:

- PCV** (Positive Pressure Ventilation) mode.
- Patient Info:** Adult, 48kg.
- Time:** 0:05.
- Monitoring Graphs:**
 - Paw - t:** Pressure (cmH₂O) vs. Time (s). Scale: 0 to 50.
 - Flow - t:** Flow (LPM) vs. Time (s). Scale: -180 to 180.
- Vital Signs:**
 - Ppeak:** 27 cmH₂O (Scale: 0 to 40).
 - PEEP:** 5 cmH₂O (Scale: 0 to 10).
 - ftotal:** (Scale: OFF).
- Main Menu:** Mode, Alarm Limits, Monitoring Data, Lung Mechanics, Log, System.
- Settings Panel:**
 - Gas Standard:** BTPS, ATP.
 - Compliance Compensation:** ON, OFF.
 - Dead Space Compensation:** ON, OFF.
 - Unit Setting:**
 - Pressure Unit: cmH₂O
 - Weight Unit: kg
 - CO₂ Unit: mmHg
 - Date:** Year: 2015, Month: 03, Day: 24.
 - Time:** Time Format: 24 hours, Hour: 00, Minute: 05.
- Control Panel (Right Side):**
 - Insp. Hold
 - Exp. Hold
 - Nebulizer
 - Manual
 - Suction
 - Freeze
 - Screen Lock
 - Alarm Limits
 - Main Menu
 - Standby



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4、 Main Function –Other Functions

PCV Adult 48kg 0:05

Paw - t cmH₂O Auto **Flow - t** LPM Auto

Ppeak 27 cmH₂O 40 5

PEEP 5 cmH₂O 10 OFF

ftotal

Main Menu

Mode Alarm Limits Monitoring Data Lung Mechanics Log System

Settings

Configurations

Machine Information

Service

Software Version

UI: 1.0.7.5

BDU: 1.0.22

Power Supply: 1.0.16

Runtime Hours: 0 h 8 min

O₂ Sensor Status: OFF

CO₂ Sensor Revision:

CO₂ Sensor Status: ON

SpO₂ Sensor Status: ON

Insp. Hold

Exp. Hold

Nebulizer

Manual

Suction

Freeze

Screen Lock

Alarm Limits

Main Menu

Standby



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4、 Main Function –Other Functions

PCV

Adult
48kg

23:58

You have entered standby.

Standby

Ppeak
cmH₂O 40

PEEP
cmH₂O 10

ftotal

Standby

New Patient

Previous Patient

Patient Settings

Patient Information

Vent. Type

Invasive

NIV

Patient Type

Male

Adult

Female

Child

Patient Height

150 cm

IBW: 48kg

Ventilation Mode

Enter

Pre-Use Test

Insp. Hold

Exp. Hold

Nebulizer

Manual

Suction

Freeze

Screen Lock

Alarm Limits

Main Menu

Start Ventilation



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4、 Main Function –Other Functions

The screenshot displays the PCV (Pneumatically Controlled Ventilation) interface. At the top, it shows 'PCV' mode, a patient icon for 'Adult 48kg', and a time of '0:03'. The main display area is split into two graphs: 'Paw - t' (Airway Pressure - Time) and 'Flow - t' (Flow - Time). The 'Paw - t' graph shows pressure in cmH₂O (0 to 50) over 12 seconds, with a peak around 25 cmH₂O. The 'Flow - t' graph shows flow in LPM (-180 to 180) over 12 seconds, with a peak around 180 LPM. To the right of the graphs, key parameters are displayed: P_{peak} 24 cmH₂O, PEEP 5 cmH₂O, and f_{total} OFF. A 'Main Menu' button is visible below the graphs. Below the main display, there are several tabs: 'Mode', 'Alarm Limits', 'Monitoring Data', 'Lung Mechanics', 'Log', and 'System'. The 'Monitoring Data' tab is active, showing 'Static Compliance' data. The 'C Static' parameter is highlighted in yellow, with a value of 19.80 mL/cmH₂O. The 'Last Measurement' for C Static is 19.70 mL/cmH₂O. Other parameters shown include R_{insp} 1.30 cmH₂O/L/s, Elastance 50 cmH₂O/L, T_c 25 ms, and PEEP_i. A 'Start' button is located at the bottom of the 'Static Compliance' section. On the right side of the interface, there is a vertical toolbar with buttons for 'Insp. Hold', 'Exp. Hold', 'Nebulizer', 'Manual', 'Suction', 'Freeze', 'Screen Lock', 'Alarm Limits', 'Main Menu', and 'Standby'.



Product configuration and main function

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4、 Main Function –Other Functions

The screenshot displays the neomed ventilator's main function interface. At the top, a status bar indicates "You have entered standby." The central display area shows "Standby" in large yellow text. To the right, key parameters are shown: Peak (40 cmH₂O), PEEP (10 cmH₂O), and ftotal. A "Main Menu" bar is visible below the central display, with a close button (X). Below the main menu, there are several tabs: Mode, Alarm Limits, Monitorin Data, Lung Mechanic, Log, and System. A secondary row of tabs includes Settings, Calibration, Event/Alarm Log, Machine Information, Language, Test Page, Update, and Optional. The "Demo" tab is currently selected, showing "Demo R: 0.005", "Demo C(Lung): 20", and "Demo C(Tube): 5". There are "Demo On" and "Demo Off" buttons. The left sidebar contains buttons for "Configurations", "Machine Information", and "Service". The right sidebar contains buttons for "Insp. Hold", "Exp. Hold", "Nebulizer", "Manual", "Suction", "Freeze", "Screen Lock", "Alarm Limits", "Main Menu", and "Start Ventilation".

You have entered standby.

Peak
cmH₂O 40

PEEP
cmH₂O 10 OF

ftotal

Standby

Main Menu

Mode Alarm Limits Monitorin Data Lung Mechanic Log System

Settings Calibration Event/Alarm Log Machine Information Language Test Page Update Optional

Configurations Demo Vlt. Monitor

Machine Information Schematic

Service Cali. Data Service Timer Error Code PT100 Cali.

Demo R: 0.005 Demo C(Lung): 20 Demo C(Tube): 5

Demo On Demo Off

Insp. Hold

Exp. Hold

Nebulizer

Manual

Suction

Freeze

Screen Lock

Alarm Limits

Main Menu

Start Ventilation



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4、 Main Function –Other Functions

The screenshot displays the 'Main Menu' interface. At the top, there is a teal header bar with the title 'Main Menu' and a close button (X) on the right. Below the header, there are several tabs: 'Mode', 'Alarm Limits', 'Monitoring Data', 'Lung Mechanics', 'Log', and 'System'. The 'System' tab is currently selected. On the left side, there is a vertical sidebar with four main categories: 'Settings', 'Configurations', 'Machine Information', and 'Service' (which is highlighted in yellow). The main content area is divided into two columns. The left column contains a grid of buttons for various system components: Calibration, Pressure Sensor, Flow Sensor, O2 Sensor, CO2 Sensor, Inspiratory Valve, Event/Alarm Log, Expiratory Valve, Atmospheric Sensor, Touch Screen, Leakage Test, and Breath Circuit Test. The right column contains a large warning message: 'For patient safety, please follow the operating instructions.' accompanied by a yellow warning triangle icon. At the top of the main content area, there are additional buttons: 'Settings', 'Machine Information', 'Language', 'Test Page', 'Update', and 'Optional'.



Operational Guidance

Daily disinfection of the surface of the ventilator.

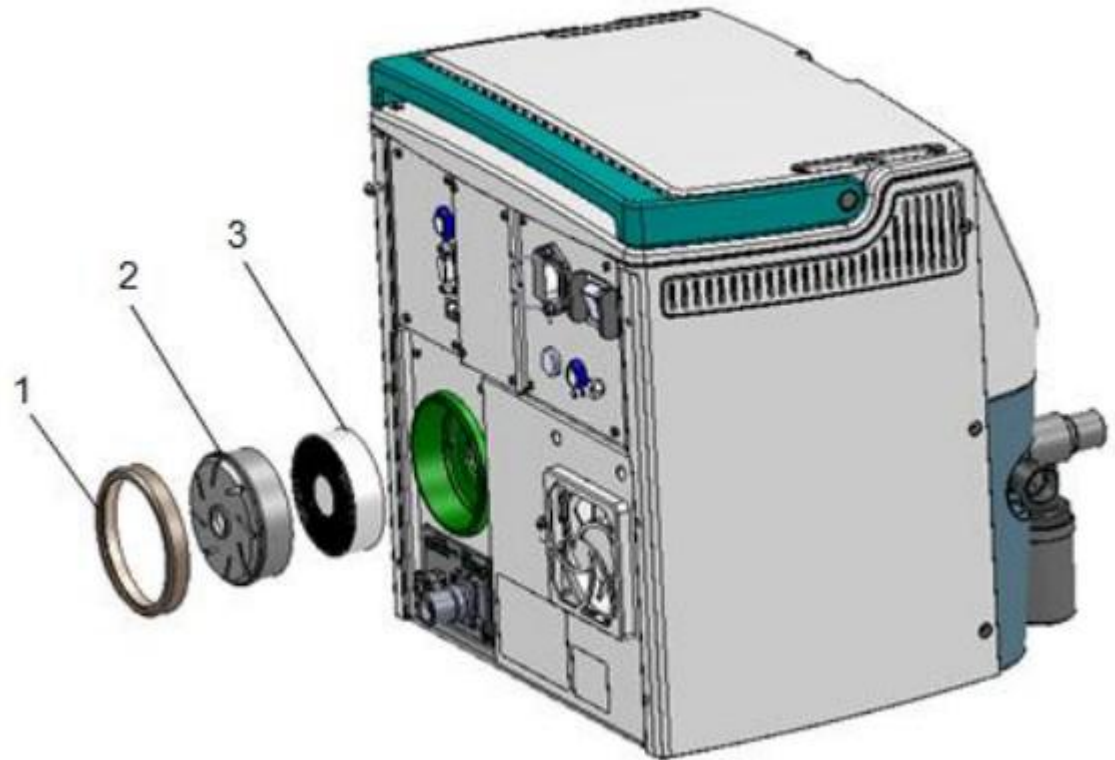
Item	Frequency	Procedure	Note
External surface of ventilator (including LCD)	After every patient	<p>Wipe clean with a damp cloth and water-soluble mild soap or with one of the chemicals listed below or its equivalent. Apply soap or chemical to damp cloth and directly to the equipment. If necessary use damp cloth and water to rinse off chemical residue.</p> <ul style="list-style-type: none">• Mild dishwashing detergent• Isopropyl alcohol (70% solution)• Window cleaning solution (with isopropyl alcohol and ammonia)• Ammonia (15% solution)	Be careful not to let disinfectant into the machine or power supply plug.



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Every 1-3 months, hospital maintenance staff should check the air filter and change it according to the situation of the surface of it.





Operational Guidance

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**Lifetime of oxygen
Sensor is 1 year . If
calibration failure ,
please change a
new one.**


**Paramagnetic Oxygen
Sensor is not consumptive
Material**





Operational Guidance

Disinfection of Expiration valve.

Expiratory module	After each patient/weekly	<p>Remove Expiratory module from ventilator and remove diaphragm and water trap. Clean the shell, diaphragm and water trap separately. Using an approved Gluteraldehyde disinfection solution, follow the manufacturer's instruction for high level disinfection and rinsing of the diaphragm, water trap and shell.</p> <p> NOTE: The shell, diaphragm and water trap can also be high level disinfected through steam autoclaving up to a maximum temperature of 134°C (273°F). Using an autoclave, follow the manufacturer's instruction for high level disinfection of the shell, diaphragm and water trap while adhering to facility procedures.</p>	Reinstall the module after cleaning and drying. Pay attention to assure connections are gas tight.
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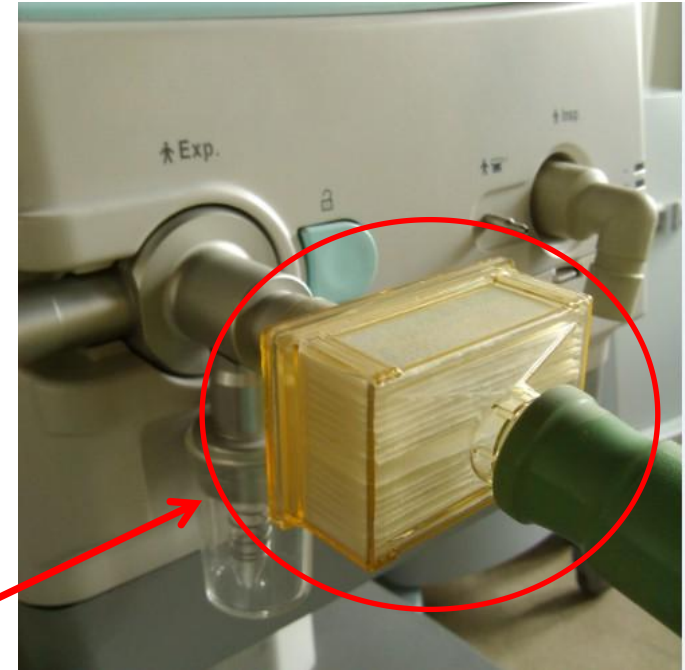




Operational Guidance

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When the ventilator is used to cure infectious diseases. Use a bacteria filter before Expiration valve.



**bacteria
filter**



Advantages of VG70

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Comprehensive

The screenshot displays the VG70 ventilator's user interface. At the top, it shows 'NIV/CPAP' mode and a patient weight of 'Adult 48kg'. The main display area is in 'Standby' mode. On the right side, there are real-time monitoring values: Ppeak (cmH₂O) at 40, PEEP (cmH₂O) at 5, and ftotal. Below this is a 'Main Menu' bar with tabs for Mode, Alarm Limits, Monitoring Data, Lung Mechanics, Log, and System. The 'Mode' tab is active, showing three options: NIV/CPAP (selected), NIV-T, and NIV-S/T. An 'Accept' button is at the bottom left. On the right side of the screen, there is a vertical toolbar with icons for 'Insp. Hold', 'Exp. Hold', 'Nebulizer', 'Manual', 'Suction', 'Print Screen', 'Freeze', 'Screen Lock', 'Alarm Limits', 'Main Menu', and 'Start Ventilation'.

Ventilation Modes
VCV, PCV, SIMV (V, P, PRVC), PRVC, SPONT/CPAP, BIVENT

NIV/CPAP, NIV-T, NIV-S/T

Auxiliary Functions
Lung mechanics,
Smart suction,
Synchronized nebulizer.....



Advantages of VG70

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Comprehensive

Used in
General ICU, RICU,
EICU,
intra-hospital transport

Suitable for
Adult, Pediatric, Infant



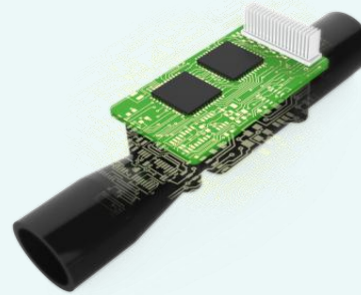


Advantages of VG70

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Reliable

Key parts



25000 h
long-life
turbine

Ultra-quiet

safe in
oxygen
enrichment



Advantages of VG70

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User-friendly

12" TFT touch screen



Pre-set parameters

Complete monitoring parameters



Advantages of VG70

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Intelligent

Automatic
Leakage
Compensation

Synchronize
d triggering

E-Comf™
expiration
control

Responding time within 10ms

Maximum leakage compensation 60L/M



Cost-effective

Paramagneti
CO₂ sensor

long-life
expiratory
flow sensor

upgradable
software
with USB
port



Parameters

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Parameters Settings

Tidal Volume: 20-2000ml

Respiratory Rate: 1-80 bpm

Inspiration Time: 0.2-9s

Inspiration Pause Time: 0~4s

Tslope : 0~2s

FiO₂: 21%~100%

PEEP: 0-35cmH₂O

CPAP (NIV) : 2-20cmH₂O

P_{supp}: 0-70cmH₂O

P_{insp}: 5-70cmH₂O

P_{high} (in BIVENT mode) : 5-60cmH₂O

P_{low} (in BIVENT mode) : 0-35cmH₂O

E_{sens}: 5%~80%

Trend function for multiple parameters

Parameter Controlld

Pressure: P_{min}, P_{plat}, P_{mean}, P_{peak}, PEEP

Volume: VT_I, VT_E, MV, MV_{spont}, Leak%

Curves: P-t, F-t, V-t, etCO₂-t

Loops: P-V, P-F, F-V



Q&A