



abm Alpha Ventilator User Guide

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abm Alpha Ventilator



What is the Alpha Ventilator and its benefits to me

The Alpha Ventilator is the world's first tile ventilator which includes advanced ventilator modes as well as key safety and alarm features as per international regulatory standards.

The COVID-19 pandemic has highlighted a shortage of ventilators but also a shortage of trained healthcare professionals to manage the large volume of ventilators when needed. In addition, frequent bedside visits by healthcare professionals to adjust and monitor ventilators increase the possibility of infection thereby pushing an already fragile healthcare system into a further grim situation. ABM's Alpha Ventilator addresses both of these issues by enabling healthcare professionals to securely monitor and adjust ventilator settings through their online portal from any location. Visit our website to learn more: www.abmrc.com

Alpha Ventilator

OVERVIEW



1. Touch Screen Display Allows you to view settings, system status information, real-time patient data, and logs.
You can also modify settings from the touch screen.
2. Air Inlet Filter This is the inlet port for inspiratory air.
3. Alarm LED Light Provides color code alarm lights.
4. Patient Inhalation Port This is the inlet port for the inhalation of air.
5. Patient Exhalation Port This is the outlet port for exhalation air.

Caution: Do not attach any unapproved devices or storage medium to any of the ports. Use only ABM approved and supplied parts. Failure to do so may damage the system.

BACK PANEL



1. AC Power Inlet Connection for the AC power cord here.
2. Power Switch Turns the device on and off.
3. Low Pressure O2 Inlet Connection for O2.
4. Handle Handle to carry the device.

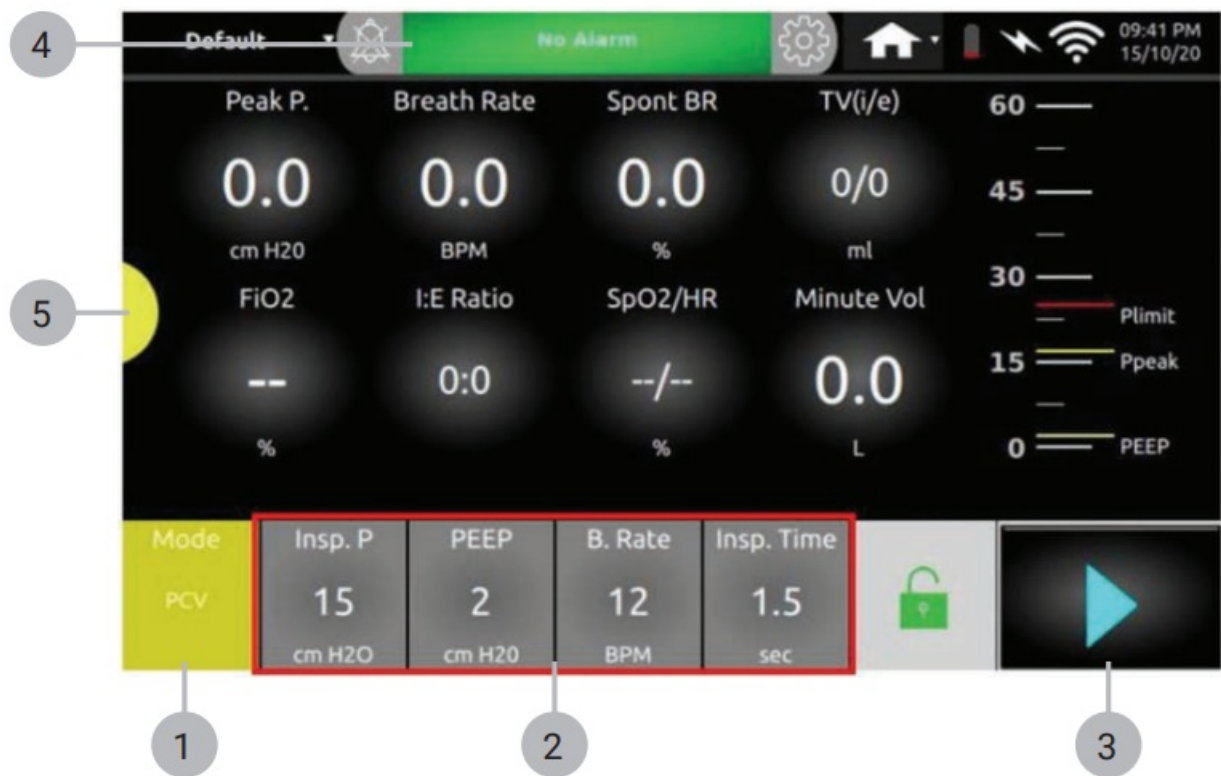
SIDE PANEL

1. FiO2 Sensor Port FiO2 connection
2. HDMI Port External HDMI display.
3. USB Ports USB memory stick connections.

Caution: Do not attach any unapproved devices or storage medium to any of the ports. Use only ABM-approved and supplied parts. Failure to do so may damage the system.

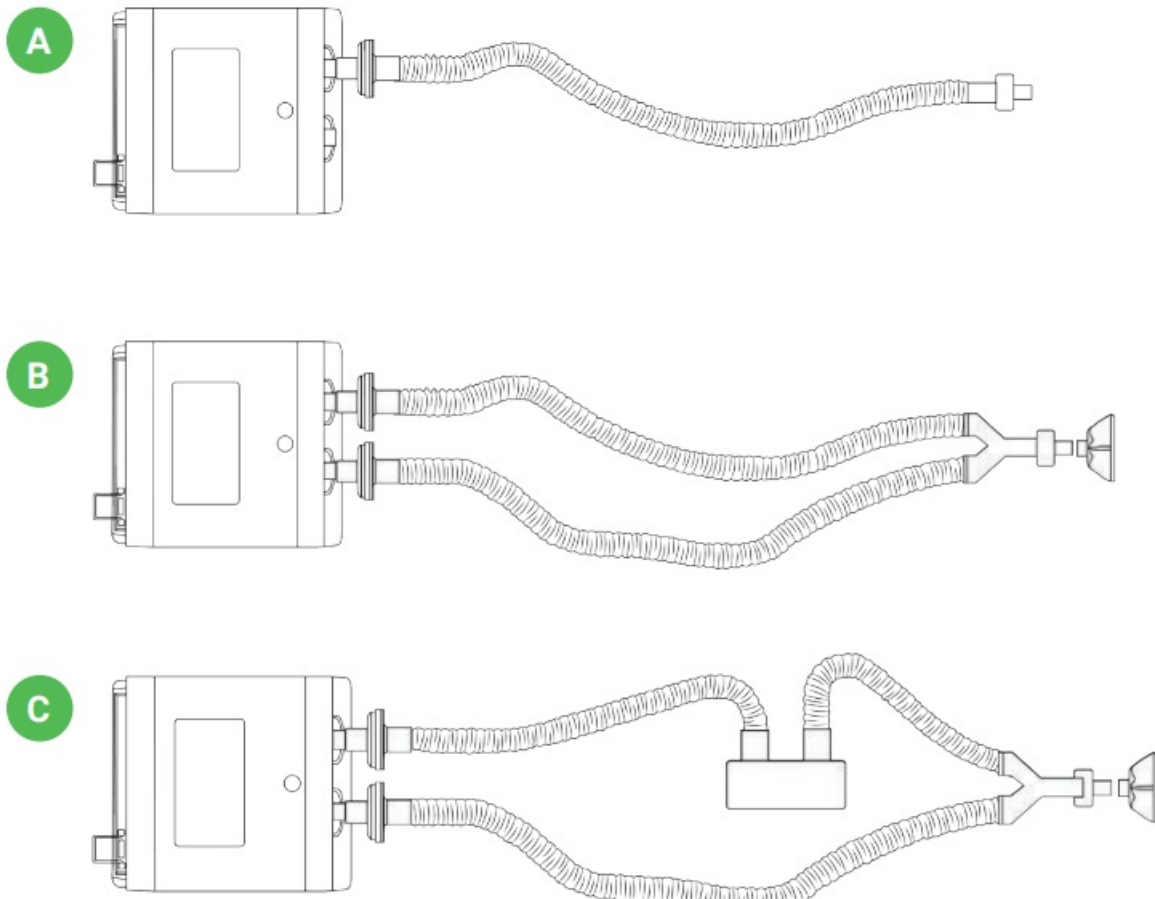
Alpha Ventilator

USER INTERFACE



1. Ventilation Modes Setting
2. Parameters Setting
3. Start/Stop
4. Alarms
5. Device Setting

How to Setup My Device



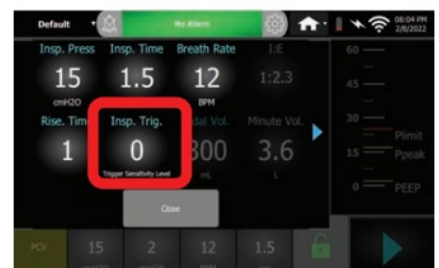
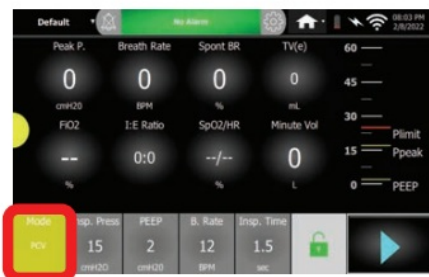
STEP ONE

Connect Patient Circuit

- **A** Single Limb
- **B** Dual Limb
- **C** Dual Limb with Active Humidifier

How to Set Up My Device STEP TWO

Select Ventilation Mode

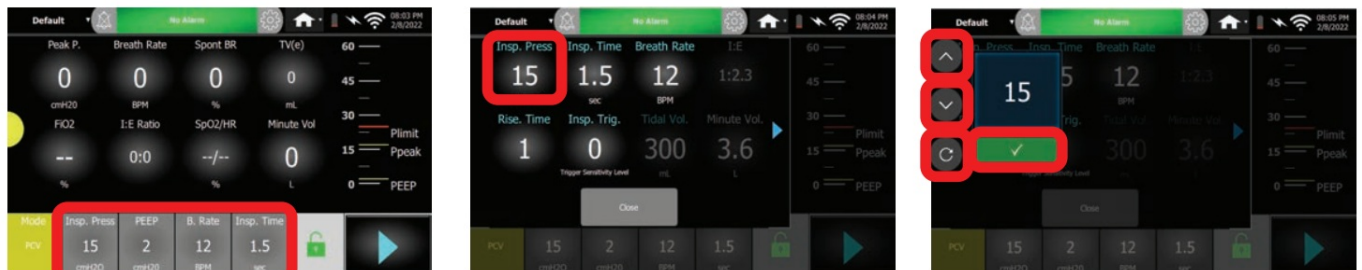


- **A.** Press Mode to enter the Ventilation Mode screen
- **B.** Select these options from the drop-down list:
 - Patient Type
 - Circuit Type

- Ventilation Mode
- Breath Options
- Review selections and press. Go to Parameters Setting to further define the ventilation mode
- Refer to Parameters Setting Steps and Table on Ventilation Modes Setting

How to Set Up My Device

STEP THREE Select Parameters Setting

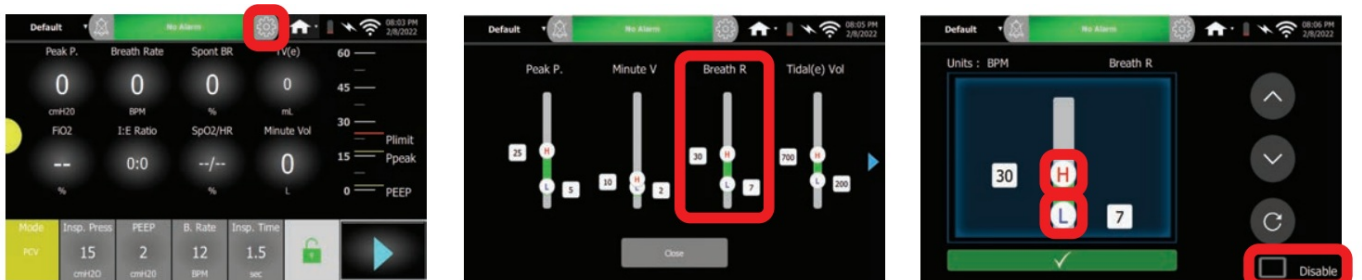


- A. Press Parameters Setting to enter the Parameters Setting screen
- B. Select individual parameters to adjust the values
- **Reminder:** Go to the next page to adjust more parameters

- Press or to adjust the value
- Press to confirm
- Review all parameter values and
- Press to go to the main screen

How to Set Up My Device

STEP FOUR Define Alarm Settings

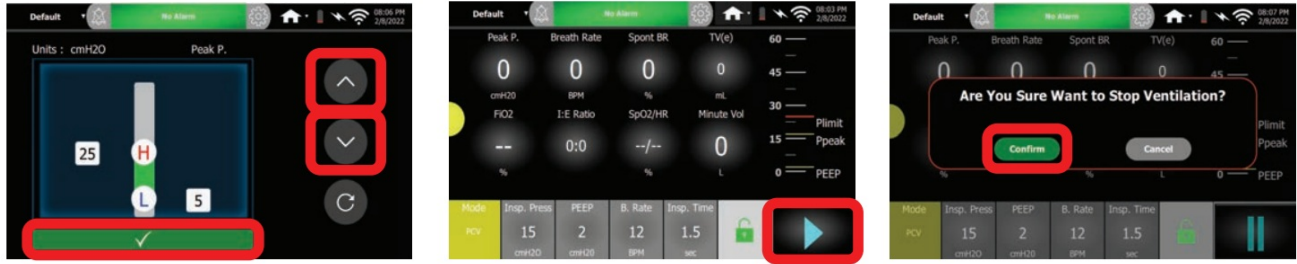






- A. Press the Alarms to enter the Alarms Setting screen
- B. Select individual alarms to adjust the values
- **Reminder:** Go to the next page to adjust more alarms
- C. Toggle the tick box to Disable or Enable the Alarms

- Select or adjust High and Low limits

STEP FIVE

- Start/Stop Ventilation



- D. Press  or  adjust the value
- Press  to confirm
- Review all parameter values and
- Press  to go to the main screen
- A. Press and hold Start/Stop Button for 1 second, release and tab immediately to Start ventilation
- B. To Stop ventilation, press the Start/Stop Button and select

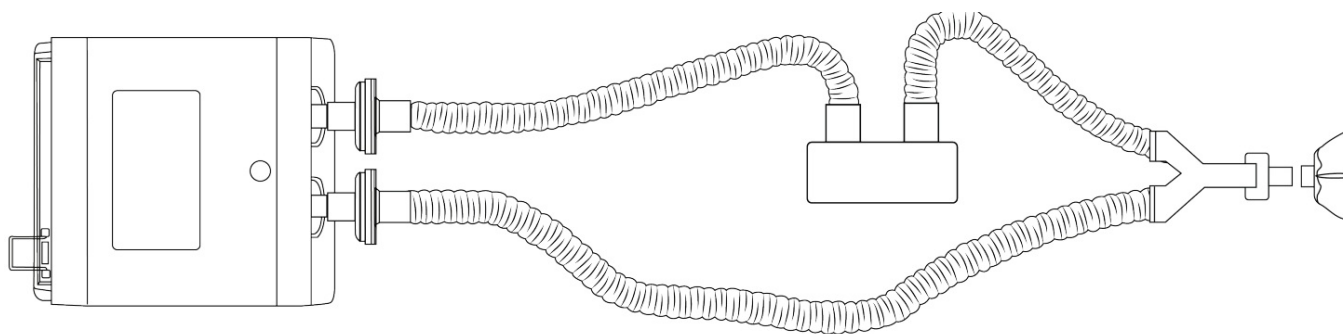
Ventilation Modes Setting

Select these options in Ventilation Mode Setting and Parameters Setting to define Ventilation Mode

	Ventilation Mode Setting		Ventilation Parameter Settings		
Modes	Ventilation Mode	Breath Option	Insp Trigger	Pressure Support	Exp Trigger
PCV	Pressure	Assist/Control	0	N.A.	N.A.
PCV (A)	Pressure	Assist/Control	1–9	N.A.	N.A.
PC-SIMV	Pressure	Intermittent	1–9	0	N.A.
PC-SIMV (PS)	Pressure	Intermittent	1–9	1–40	0–90
CPAP	Pressure	Support	0	N.A.	N.A.
PSV	Pressure	Support	1–9	1–40	0–90
VCV	Volume	Assist/Control	0	N.A.	N.A.
VCV (A)	Volume	Assist/Control	1–9	N.A.	N.A.
VC-SIMV	Volume	Intermittent	1–9	0	N.A.
VC-SIMV (PS)	Volume	Intermittent	1–9	1–40	0–90
PRVC	Volume	PRVC	0–9	N.A.	N.A.

Additional Device Setup

Select this option to set-up low-flow O2 input and FiO2 sensor connection



Notes


ABM Respiratory Care™ is a registered trademark of ABMRC, LLC. The only warranty ABMRC, LLC makes is the express written warranty extended on the sale or rental of its products.

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For further information about this product or service, visit our webpage:

www.abmrc.com or call customer support: 1-877-ABM-RC01 (877-226-7201)

Documents / Resources

	<p>abm Alpha Ventilator [pdf] User Guide Alpha Ventilator, Alpha, Ventilator</p>
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References

- [Airway Clearance System | ABM Respiratory Care](#)
- [YouTube](#)
- [Introducing the user interface of the Alpha ventilator - YouTube](#)