

COVID-19 Quick Configuration Guide

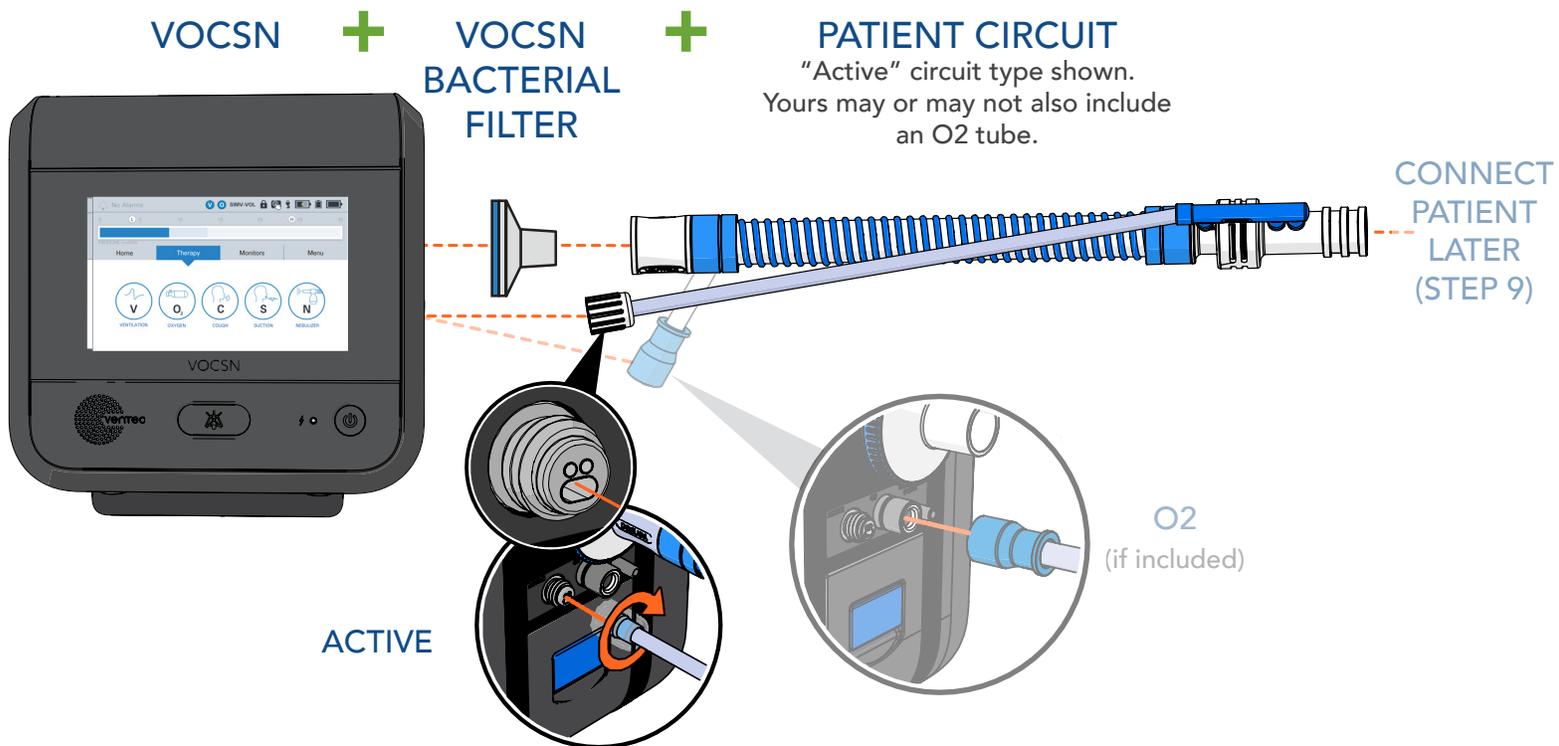
This guide provides basic instructions for setting up and configuring VOCSN. It includes initial settings that can be used and modified as needed to begin treatment of patients suffering from the symptoms associated with COVID-19.

These basic setup instructions are intended for use in an emergency response situation. In-depth clinical instructions are available online at VentecLife.com/VOCSNmanual.

1 CONNECT FILTER AND PATIENT CIRCUIT

The example graphic below shows how to set up an **Active** circuit type.

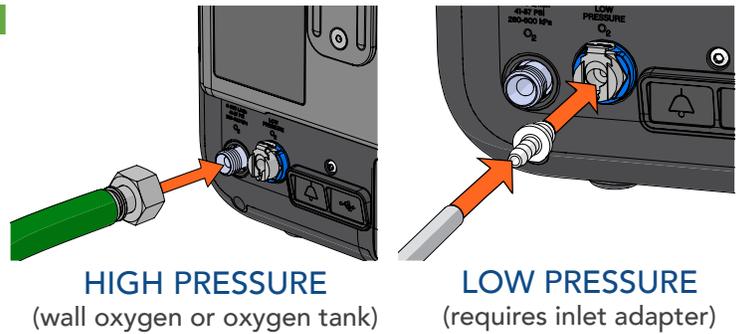
Note: If there's also an O2 tube with your circuit, connect it to the "O2" port under the bacterial filter. (You can still deliver oxygen without one.)



2 CONNECT EXTERNAL OXYGEN

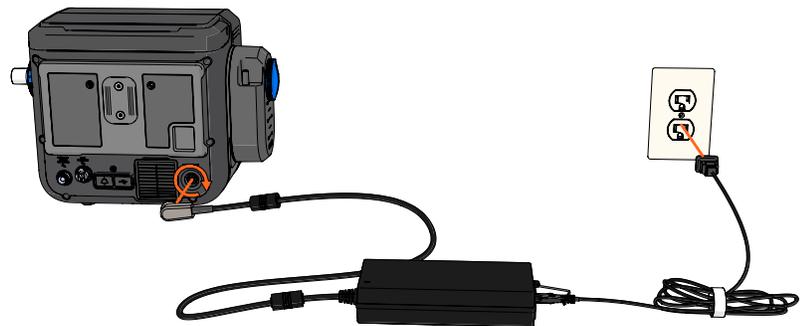
Connect high-pressure or low-pressure oxygen to the back of VOCSN.

After connecting it, turn the oxygen source on.



3 CONNECT POWER

Plug the power cord into an outlet and the power block. Then, plug the other end into the back of VOCSN and screw the connector clockwise.



4 POWER ON

Press the On/Off button on the lower right side of VOCSN.

Note: VOCSN will emit a series of beeps and clicks as it starts up. These are normal.



5 SKIP THE PRE-USE TEST (FOR NOW)

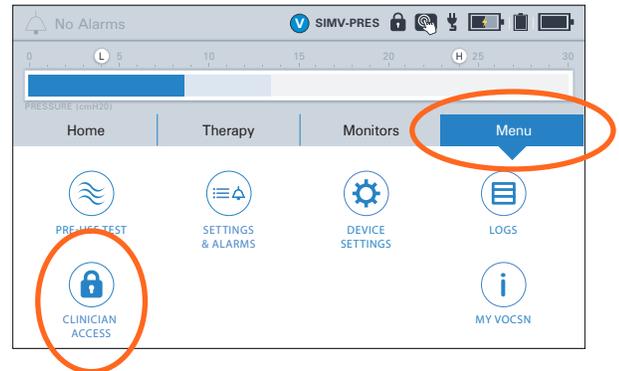
Press **EXIT** on the Pre-Use Test screen. **You will run a Pre-Use Test in step 8**, after configuring VOCSN.

6 CHANGE "UNLOCK REQUIRED?" TO "NO."

VOCSN default settings include a Clinician Access feature that will lock the device after 15 minutes. To prevent control settings from being locked while you are setting up and using VOCSN, turn this feature off.

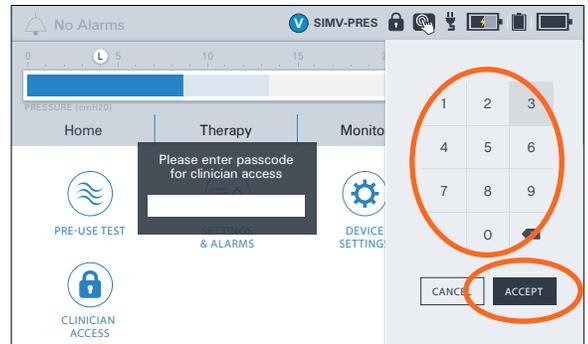
VOCSN has four main navigation tabs - [Home](#), [Therapy](#), [Monitors](#), and [Menu](#).

a Press the [Menu](#) tab, and then select [CLINICIAN ACCESS](#).

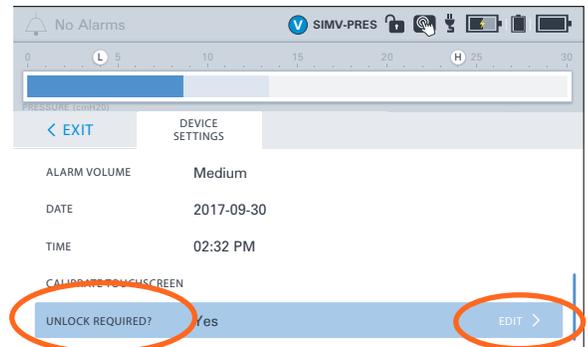


b Locate the device serial number on back of the device. It's on a label on lower left, next to the **SN** symbol.

c Enter the **last four digits of the serial number** using the numeric pad on the touchscreen, and then press [ACCEPT](#).

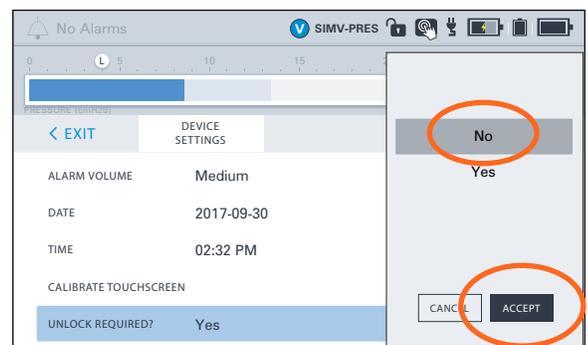


d Select [DEVICE SETTINGS](#) next. Scroll to [UNLOCK REQUIRED?](#), press it to highlight it, and then press [EDIT >](#) in the right side of the blue banner.



e Change the control setting to [NO](#), and then press [ACCEPT](#).

f When done, press the [< EXIT](#) tab in the upper left hand corner.



7 CONFIGURE VENTILATION

VOCSN has up to five Therapy buttons - Ventilation, Oxygen, Cough, Suction, and Nebulizer.

- a** Press the **Therapy** tab, **Ventilation**, and then **SETTINGS & ALARMS**.



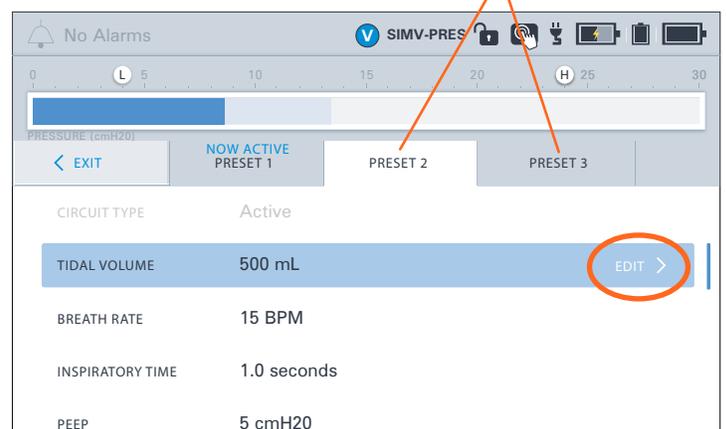
- b** Use the tabs at the top of the **Settings & Alarms** screen to navigate between the three available presets.

- c** Press the **Preset 2** tab. If **Preset Enable**, says **Disabled** next to it, press it to highlight it and then press **EDIT >** on the right side of the screen. Select **Enable** and then **ACCEPT**. Repeat this process for the **Preset 3** tab.

- d** You are ready to configure Ventilation. To ensure you have access to all settings, set up ventilation using presets that are **NOT** active first. (At factory default settings, this means configuring **Preset 2** and **Preset 3** first.)

- e** To change a setting, scroll to the setting you would like to modify, press it to highlight it, and then press **EDIT >** on the right side of the blue banner. Enter the desired setting in the pop-up, and then press **ACCEPT** to confirm the change.

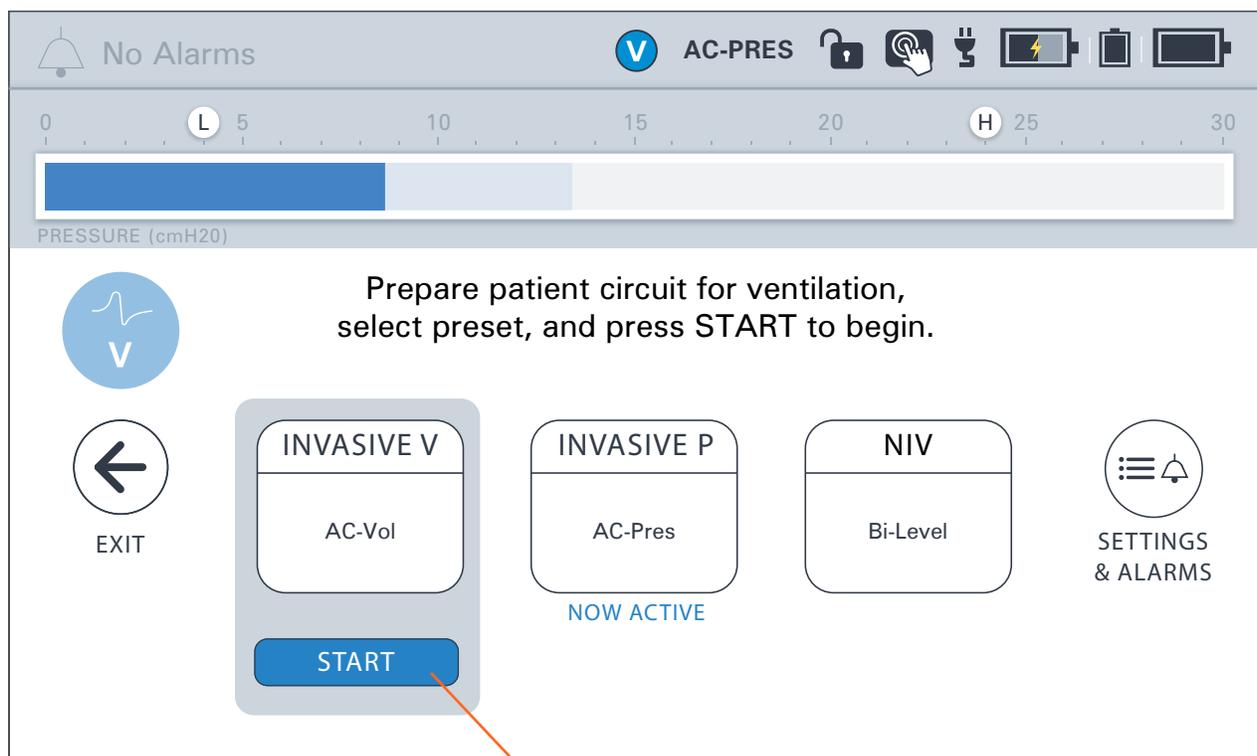
PRESS TABS AND CONFIGURE NON-ACTIVE PRESET(S): 2 & 3



Note: See [page 6](#) for generic COVID-19 ventilation settings that may be used as a guide for configuring

VOCSN. These presets are intended for delivery of invasive volume or pressure ventilation (through an endotracheal tube), or non-invasive ventilation (using a mask).

- f** When you are done configuring the inactive Presets (2 and 3), press **< EXIT**.
- g** To set the Preset 1 settings, you must first ensure it is no longer active. Press the **START** button below Preset 2 or 3. Then, highlight Preset 1 and press **SETTINGS & ALARMS** again. You may now fully configure the final Preset 1 settings.
- h** Once all desired presets are configured press **< EXIT** to view the main Ventilation therapy screen. Select the Preset you would like to use to deliver therapy to the patient, and then press the **START** button beneath it.



**PRESS START TO BEGIN
USING THE DESIRED PRESET**

The settings shown on this page are designed to treat an average adult male experiencing the symptoms of COVID-19, through an endotracheal tube (invasive ventilation). If needed, a mask can also be used with the basic non-invasive ventilation settings shown.

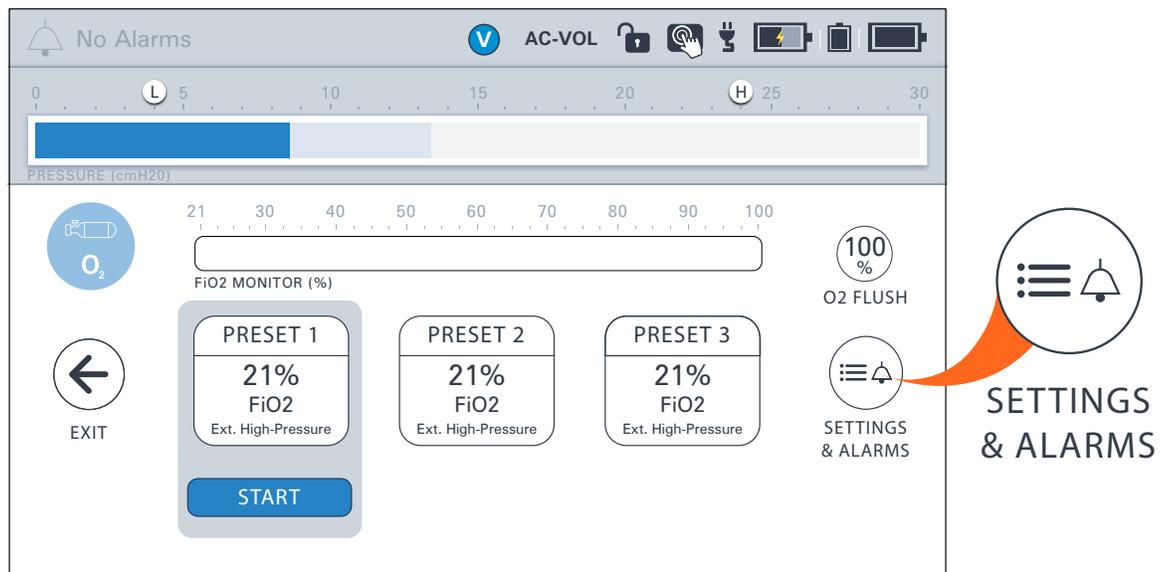
Use and modify these basic COVID-19 starter settings as needed for the patient physiology and condition. Verify settings are appropriate for the patient before providing therapy.

Ventilation Setting Name	Volume Ventilation	Pressure Ventilation	Non-invasive Ventilation
PRESET LABEL	INVASIVE V	INVASIVE P	NIV
MODE	AC-Volume	AC-Pressure	Bi-Level
PATIENT TYPE	Adult	Adult	Adult
HUMIDIFICATION	HME	HME	HME
CIRCUIT TYPE <i>*Setting must match Circuit Type connected in step 1. See top of circuit label.</i>	Active*	Active*	Active* Use a non-vented mask with Active circuits. Use a vented mask with Passive and Valveless circuits.
BREATH RATE	15 BPM	15 BPM	15 BPM
INSPIRATORY TIME	1.0 seconds	1.0 seconds	1.0 seconds
TIDAL VOLUME	500 mL	n/a	n/a
PRESSURE CONTROL	n/a	10 cmH2O	n/a
PEEP	5 cmH2O	5 cmH2O	
EPAP	n/a	n/a	5 cmH2O
IPAP	n/a	n/a	12 cmH2O above ambient
FLOW TRIGGER	3.0 L/min	3.0 L/min	3.0 L/min
FLOW CYCLE	n/a	n/a	25%
TIME CYCLE	n/a	n/a	1.5 seconds
PC FLOW TERMINATION	n/a	OFF	n/a
RISE TIME	n/a	3	3
APNEA RATE	12 Backup BPM	12 Backup BPM	12 Backup BPM
LEAK COMPENSATION	ON	ON	ON
SIGH	OFF	n/a	n/a
APNEA ALARM	20 seconds	20 seconds	20 seconds
BREATH RATE ALARM	(L)=5 (H)=35	(L)=5 (H)=35	(L)=5 (H)=35
MINUTE VOLUME ALARM	(L)=2.0 (H)=10.0	(L)=2.0 (H)=10.0	(L)=0.1 (H)=10.0
INSPIRATORY PRESSURE ALARM	(L)=5 (H)=45	(L)=5 (H)=30	(L)=5 (H)=30
HIGH PEEP (or EPAP)	5 cmH2O above set PEEP	5 cmH2O above set PEEP	5 cmH2O above set EPAP
LOW PEEP	OFF	OFF	OFF
PATIENT CIRCUIT DISCON. ALARM	3 breaths (leak up to 75 L/min)	3 breaths (leak up to 75 L/min)	10 breaths (leak 75 - 175 L/min)
HIGH PRESSURE DELAY	2 Breaths	2 Breaths	2 Breaths

8 CONFIGURE AND START OXYGEN

Oxygen therapy also includes three configurable presets.

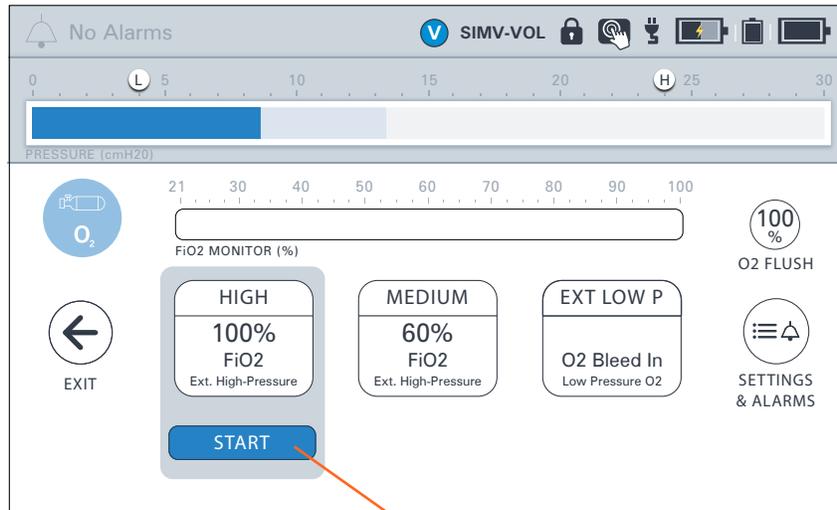
- a Press the **Therapy** tab, **OXYGEN** or **EXTERNAL OXYGEN**, and then **SETTINGS & ALARMS**.



- b Change Oxygen therapy settings the same way you changed Ventilation settings: Scroll to the control you would like to modify, select the control to highlight it, and then press **EDIT >**. Press **ACCEPT** to confirm your selection.
- c The following oxygen settings are designed to treat an average adult experiencing the symptoms of COVID-19. **Modify these basic starter settings as needed for the specific patient and condition and verify settings are appropriate for the patient before providing therapy.**

Oxygen Setting Name	Settings - Maximum O2	Settings - Medium O2	Settings - Low Pres. O2
PRESET LABEL	HIGH	MEDIUM	EXT LOW P
OXYGEN SOURCE	External High Pressure	External High Pressure	Low Pressure O2
OXYGEN DELIVERY MODE	FiO2	FiO2	O2 Bleed In
FI02	100%	60%	n/a
FI02 ALARM	(L)=80% (H)=OFF	(L)=45% (H)=75%	n/a
CHECK O2 ALARM	n/a	n/a	ON

- d** **IMPORTANT:** After configuration, you must press **START** under a preset to activate oxygen.



PRESS START TO BEGIN DELIVERING OXYGEN

9 RUN A PRE-USE TEST

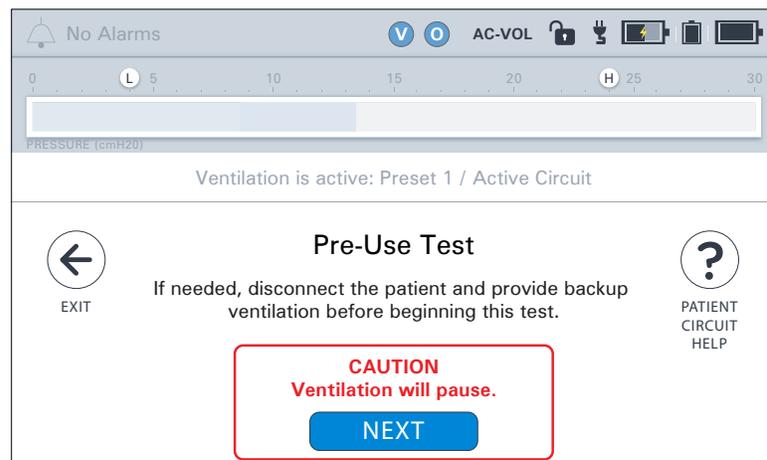
Press the **Menu** tab, and then the **PRE-USE TEST** button.

Press NEXT, and then carefully follow the on-screen instructions.

You will be asked to perform actions with the patient circuit. When the Pre-Use Test passes, Ventilation (and Oxygen, if started) will begin automatically.

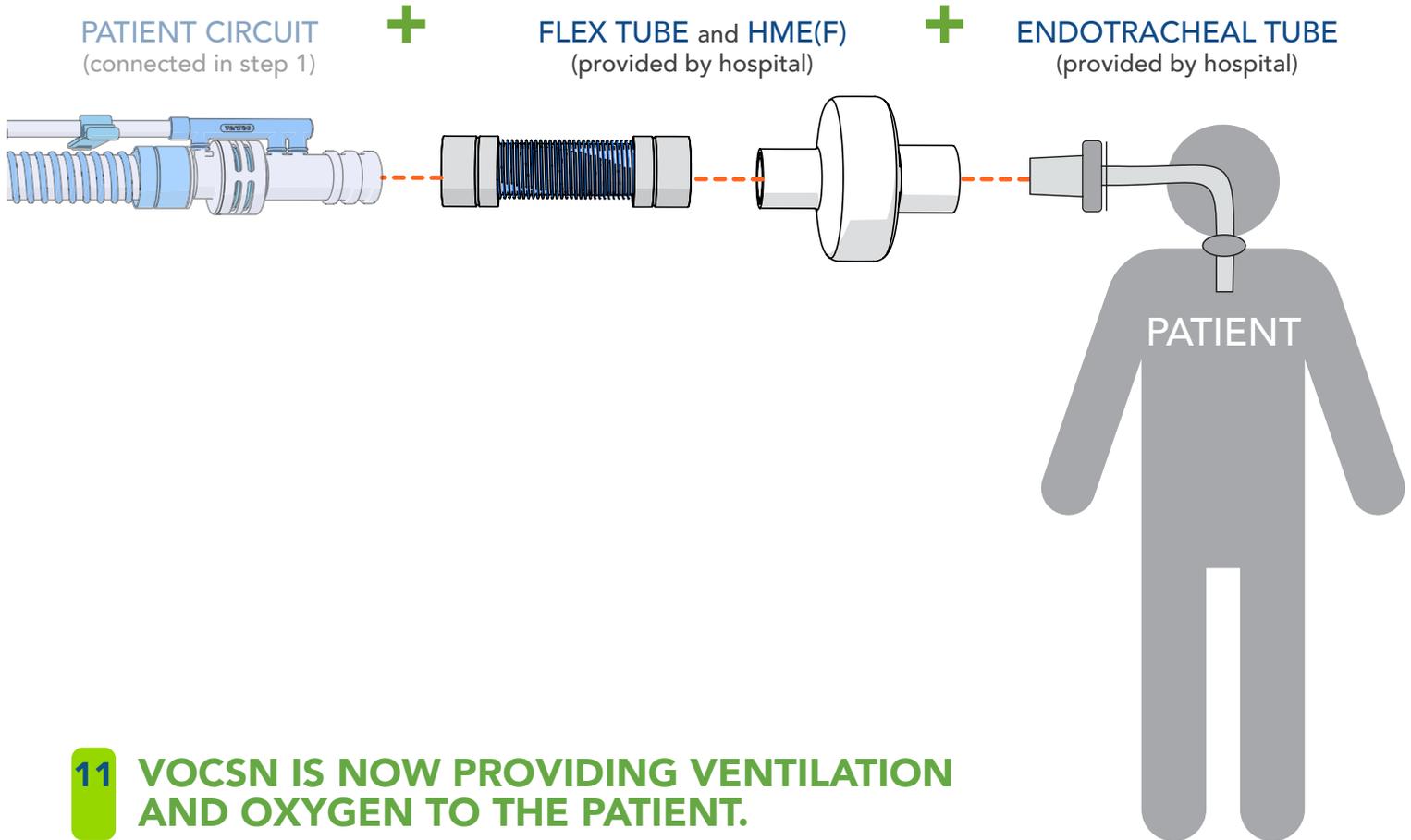


PRE-USE TEST



10 CONNECT PATIENT

Connect the patient circuit to a flex tube, HME(F), and then the patient's endotracheal tube.



11 VOCSN IS NOW PROVIDING VENTILATION AND OXYGEN TO THE PATIENT.

Additional Resources

For manuals, training videos, and additional clinical resources, see our COVID-19 support page online at:

VentecLife.com/COVID-19support