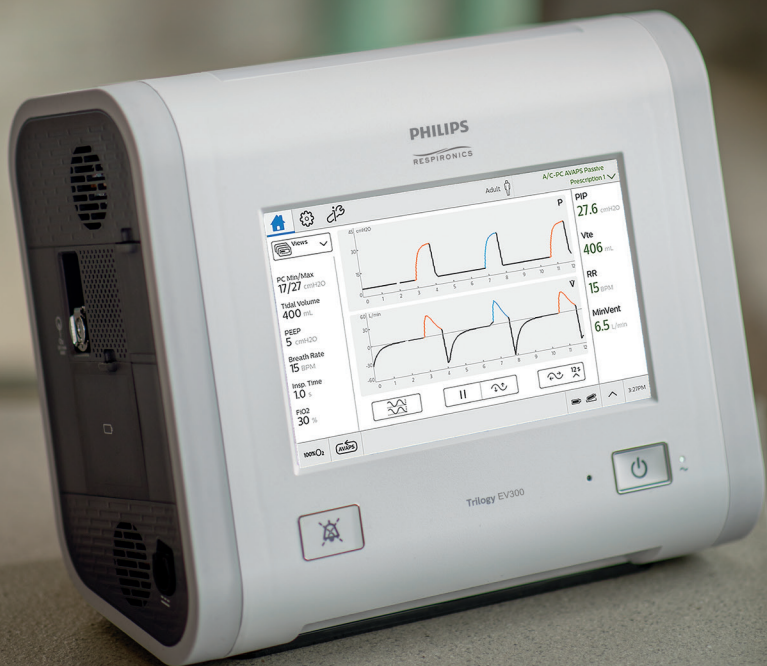
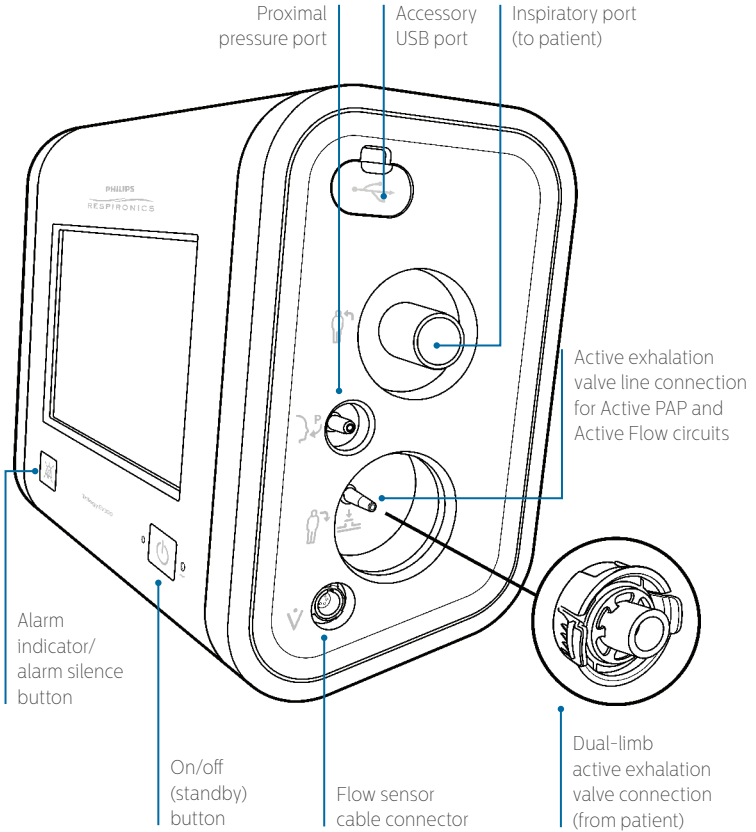


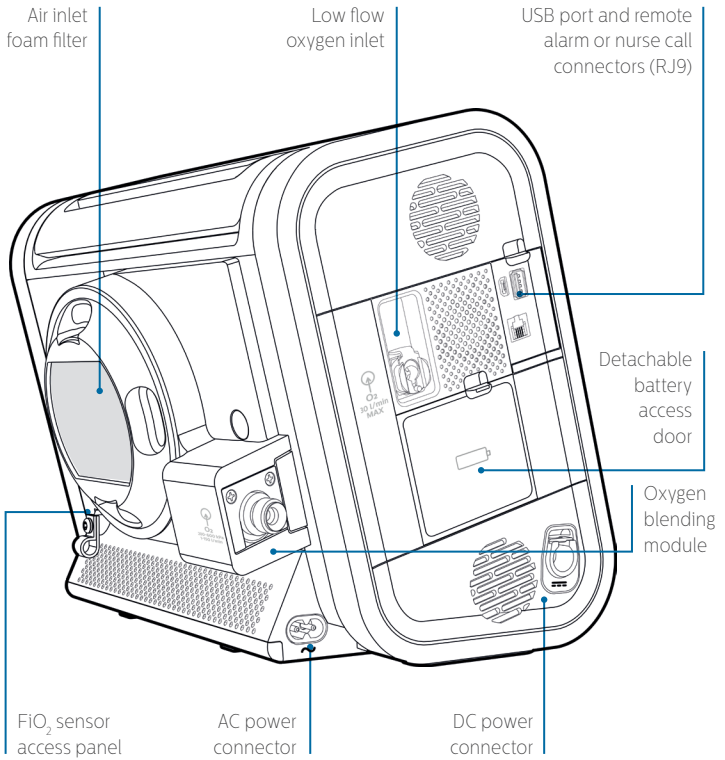
# Quick start guide for clinicians

Overview	2
Available circuit options	4
Key menu windows	8
Set up and deliver therapy	10
Appendices	13



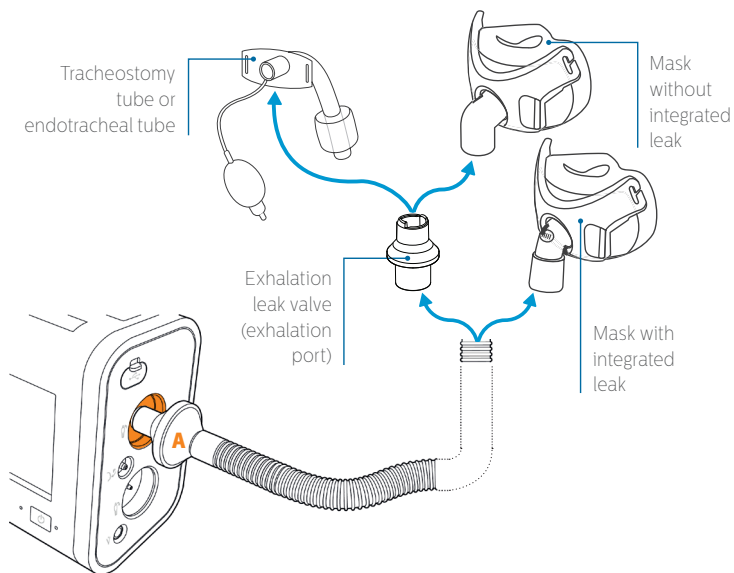
# Overview





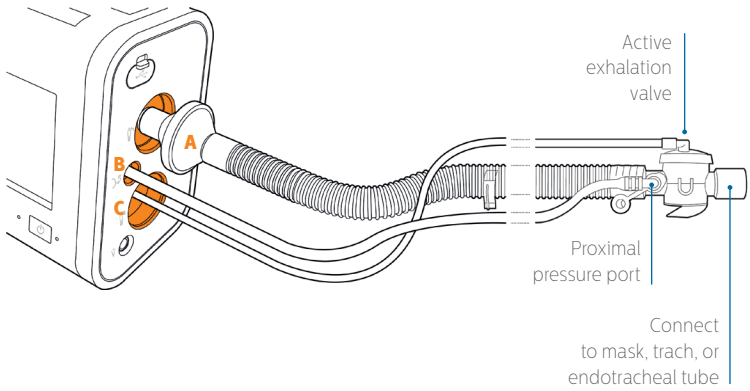
# Available circuit options

## Passive circuit



- 
- A.** Connect the bacteria filter on the circuit to the inspiratory port.

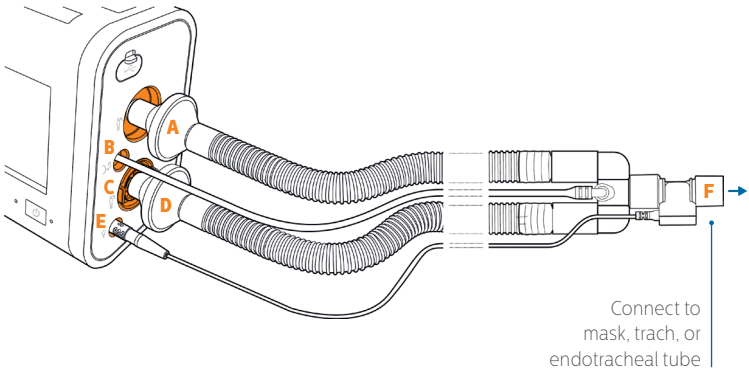
## Active PAP circuit



- A.** Connect the bacteria filter on the circuit to the inspiratory port.
- B.** Connect the proximal pressure line (wider diameter than active exhalation valve line) to the proximal pressure port.
- C.** Connect the active exhalation valve pressure line to the active exhalation valve line connection.



# Dual-limb circuit

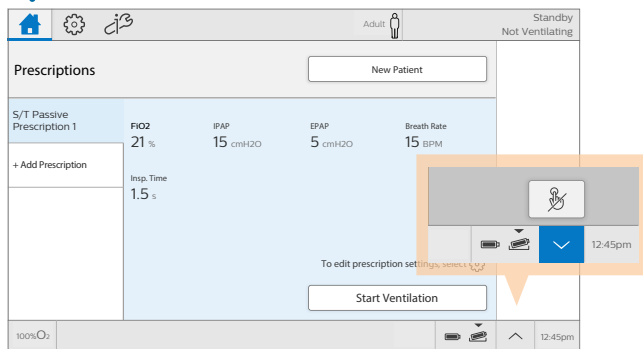


- A.** Connect the bacteria filter and colored inspiration tube to the inspiratory port.
- B.** Connect the proximal pressure line to the proximal pressure port.
- C.** Install the active exhalation valve into the recessed AEV port. Press until both sides click into place.
- D.** Connect the bacteria filter and clear expiration tube to the AEV.
- E.** Connect the flow sensor cable to the flow sensor cable connector.
- F.** Connect the flow sensor to the Y-shaped connector on the circuit.

# Key menu windows

## Home standby window

The Home standby window loads after the device is turned on



### Prescriptions

Therapy prescriptions are listed here for selection. A default prescription is present for a new patient

### Touchscreen lock

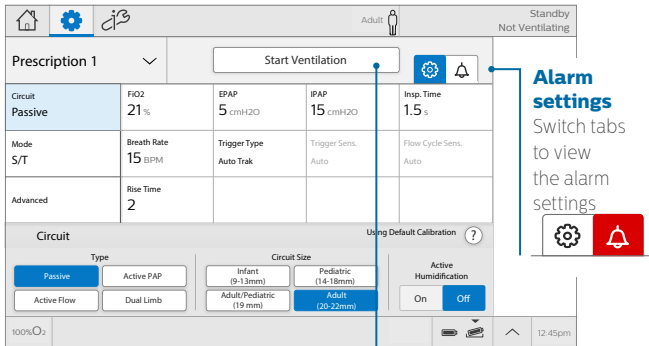
To prevent accidental therapy changes, use the touchscreen lock. Lock the screen anytime with the status bar shortcut shown here. In the device options screen, you can activate automatic touchscreen lock, which will engage after 5 minutes of inactivity



# Key menu windows *(continued)*

## Prescription settings window

Tap the prescriptions icon to access the prescription settings window



### Settings selection grid

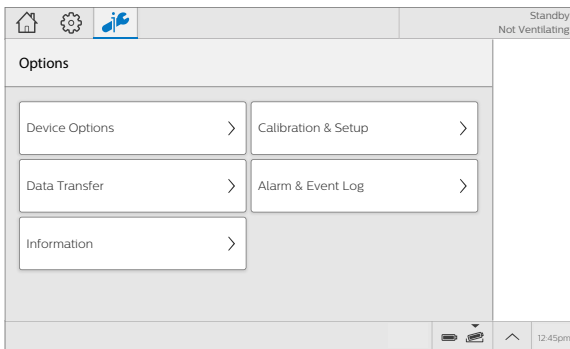
Tap any setting in the selection grid to bring up the user control settings in the space below the grid

### Start Ventilation

Tap **Start Ventilation** to deliver the prescription currently displayed

## Options window

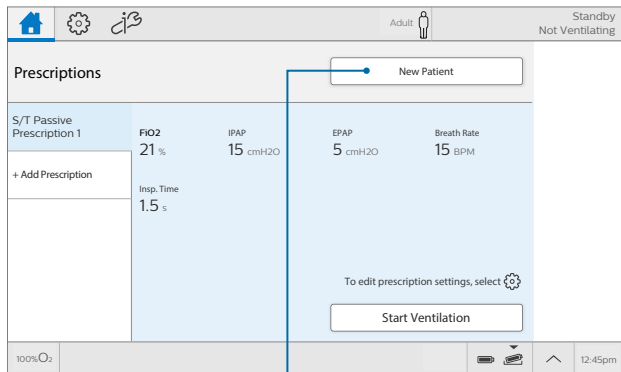
Tap the options icon to access the options menu window



Within the options menu window, change device options, run calibrations and tests, and view and work with data

# Set up & deliver therapy

## Configure for a new patient



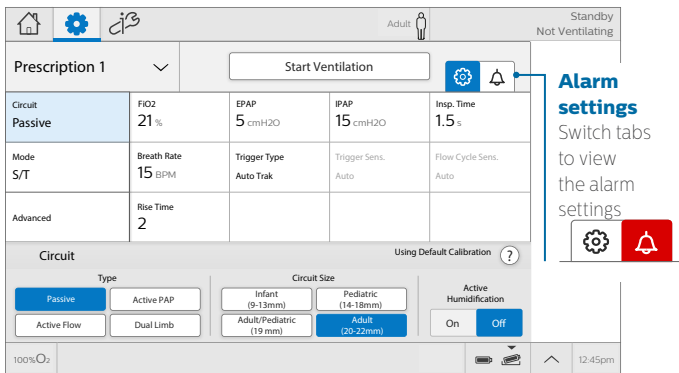
### 1. New patient

Tap **New Patient** to clear logged patient data and prescriptions, preparing the device for a new patient's use

### 2. Confirm filter

Acknowledge the use of a bacterial filter with the circuit

## Prescription settings: circuit



### Alarm settings

Switch tabs to view the alarm settings

### Settings selection grid

Tap any setting in the selection grid to bring up the user control settings in the space below the grid. The **Circuit** setting is selected and displayed by default

# Set up & deliver therapy *(continued)*

## Prescription settings: mode

Prescription 1		Accept	Cancel	Settings	Alerts
Circuit Passive	FIO2 21 %	Tidal Volume 400 mL	PC Min/Max 10/20 cmH2O	PEEP 5 cmH2O	
Mode A/C-PC AVAPS	Insp. Time 1.5 s	Breath Rate 15 BPM	Trigger Type Auto Trak	Trigger Sens. Auto	
Advanced	Rise Time 2	AVAPS Speed 5 cmH2O/min			

Mode

A/C-PC AVAPS-AE PSV SIMV-PC

A/C-VC S/T CPAP SIMV-VC AVAPS On Off

100% O<sub>2</sub> 12:45pm

### Mode settings

Tap **Mode** to choose a therapy mode or to add **AVAPS**. An unsaved change indicator (▼) is visible until you tap **Accept** to save the new values

## Prescription settings: advanced

Prescription 1		Start Ventilation		Settings	Alerts
Circuit Passive	FIO2 21 %	Tidal Volume 400 mL	PC Min/Max 10/20 cmH2O	PEEP 5 cmH2O	
Mode A/C-PC AVAPS	Insp. Time 1.5 s	Breath Rate 15 BPM	Trigger Type Auto Trak	Trigger Sens. Auto	
Advanced	Rise Time 2	AVAPS Speed 5 cmH2O/min			

Advanced

Backup Ventilation Sigh Insp. Time Min/Max Enable

On Off On Off On Off

100% O<sub>2</sub> 12:45pm

### Advanced settings

Tap **Advanced** to access specialized features, which vary by mode and circuit

## Therapy settings

Prescription 1		Accept	Cancel	⚙️	🔔				
Circuit	Passive	FI02	21%	Tidal Volume	400 mL	PC Min/Max	10/20 cmH2O	PEEP	5 cmH2O
Mode	A/C-PC AVAPS	Insp. Time	1.5 s	Breath Rate	15 BPM	Trigger Type	Auto Trak	Trigger Sens.	Auto
Advanced		Rise Time	2	AVAPS Speed	5 cmH2O/min				
Inspiratory Time (s)								IE Ratio 1:2.3 Exp. Time 2.8 s ?	
0.3 ————— 5.0									
1.2									
- +									
100% O <sub>2</sub> 12:45pm									

Adjust the prescription parameters, then tap **Accept** to save the new values

## Alarm settings

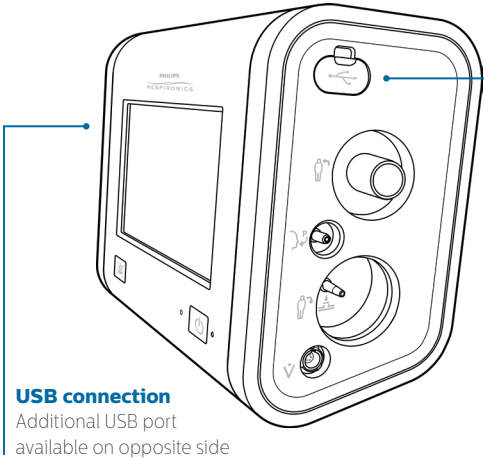
Prescription 1		Accept	Cancel	⚙️	🔔				
Circuit	Passive	Tidal Volume	Off/Off mL	Min/Vent	3.5/Off L/min	Resp. Rate	Off/45 BPM	Circuit Disconnect	10 s
Mode	A/C-PC AVAPS								
Advanced									
Respiratory Rate Alarms (BPM)								Breath Rate 15 BPM	
Off ————— 90 ————— Off									
Off A 45 B									
- +									
100% O <sub>2</sub> 12:45pm									

Configure all user-settable alarms (A. Low threshold, B. High threshold)

Once all settings are configured, tap **Accept** to save the new values.  
Then tap **“Start Ventilation”** to begin therapy

# Additional features

## USB connections



### USB connection

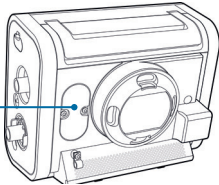
Additional USB port available on opposite side

### USB connection

USB port for accessories:

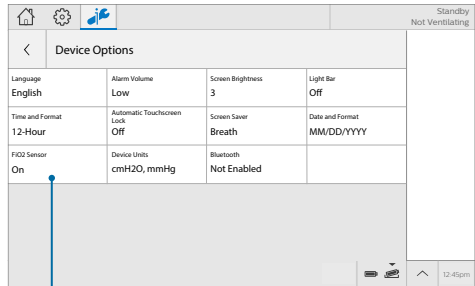
- Pulse oximetry (SpO<sub>2</sub>) / Pulse rate (PR)
- Capnography (EtCO<sub>2</sub>)
- Data management

## FiO<sub>2</sub> sensor



### FiO<sub>2</sub> sensor compartment

An FiO<sub>2</sub> sensor may be installed here. See manual for details

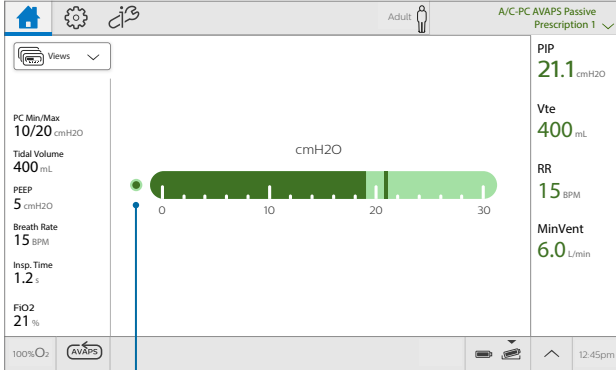


Under options, device options, tap the **FiO<sub>2</sub> Sensor** option and ensure the control is set to “On”

# Monitoring

## Home window during therapy

During ventilation, the monitoring view appears in the home window

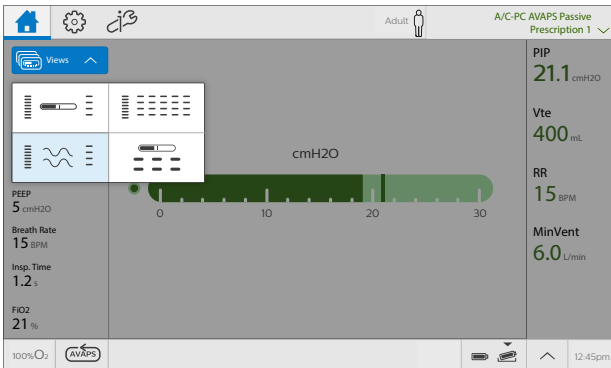


### Spontaneous breath indicator

When the current breath is triggered by the patient, this indicator appears filled (dark green)

## Change monitoring view

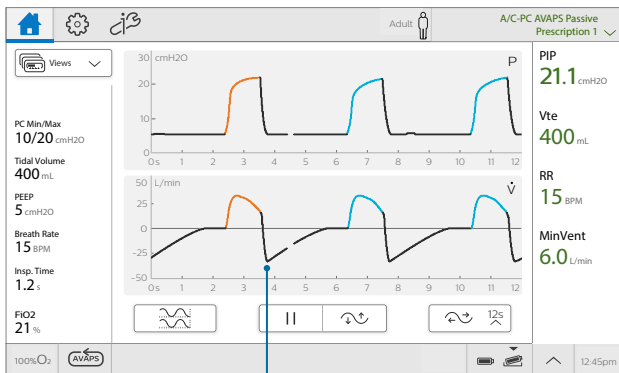
Tap **Views** to access multiple monitoring options



# Monitoring *(continued)*

## Monitoring views

Each monitoring view shows parameters, a pressure bar, waveforms or a combination of these. The waveforms view is shown here



### Inspiratory color-coding

The inspiratory phase of the waveforms is color-coded. Orange indicates a ventilator-initiated breath, while blue indicates a patient-initiated breath

# Additional prescriptions

## Adding another prescription

### During therapy

Tap the **prescription** to open the prescriptions list

Tap **Add Prescription**

The screenshot shows the therapy screen for 'A/C-PC AVAPS Passive Prescription 1'. The top bar includes a home icon, a gear icon, a patient ID 'dj3', 'Adult' status, and the prescription name. Below the title bar, there is a 'Start Ventilation' button and a settings icon. The main area is a table of prescription parameters:

A/C-PC AVAPS Passive		Tidal Volume	PC Min/Max	PEEP	PIP 21.1 cmH <sub>2</sub> O
		400 mL	10/20 cmH <sub>2</sub> O	5 cmH <sub>2</sub> O	
+ Add Prescription		Breath Rate	Trigger Type	Trigger Sens.	RR 15 BPM
		15 BPM	Auto Trak	Auto	MinVent 6.0 L/min
Advanced	Rise Time	AVAPS Speed			
	2	5 cmH <sub>2</sub> O/min			

The bottom bar shows '100% O<sub>2</sub>', 'AVAPS' mode, battery level, and '12:45pm'.

Or

### During standby

In the home window, tap **Add Prescription**

then select the name and edit as needed

The screenshot shows the standby screen. The top bar includes a home icon, a gear icon, a patient ID 'dj3', 'Adult' status, and 'Standby Not Ventilating'. The main area is titled 'Prescriptions' and contains a 'New Patient' button. Below this is a table of prescription parameters:

S/T Passive Prescription 1	FI <sub>O</sub> 2	IPAP	EPAP	Breath Rate
	21 %	15 cmH <sub>2</sub> O	5 cmH <sub>2</sub> O	15 BPM
+ Add Prescription	Insp. Time			
	1.5 s			

Below the table, there is a note: 'To edit prescription settings, select' followed by a gear icon. At the bottom of the table area is a 'Start Ventilation' button. The bottom bar shows '100% O<sub>2</sub>', battery level, and '12:45pm'.

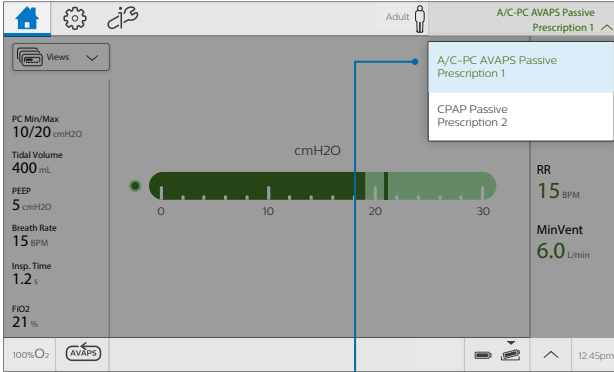


# Additional prescriptions *(continued)*

## Changing therapy

### Prescription menu

In the home window, tap the prescription in the menu bar to access the prescription menu



### Select prescription

Select a prescription to switch therapy

### Changing therapy in prescription settings

You can also change therapy in the prescription settings window. Select a prescription then tap

#### Switch Therapy

Switch Therapy

### Circuit note

The circuit settings must be the same as the current prescription. If the circuit settings differ, place the device into standby to change the physical circuit. Then, select the prescription from the home screen to start ventilation

# Settable alarms

The following alarms are available within each prescription, depending on the therapy mode.

User-settable alarm	Range
<b>Circuit Disconnect</b>	Off; 5 to 60 seconds
<b>Tidal Volume</b>	
Low	Off; 10 to 2000ml (or High alarm setting value -5)
High	Off; 10 (or Low alarm setting value +5) to 2000ml
<b>Minute Ventilation</b>	
Low	Off; 0.2 to 30l/min (or High alarm setting value -0.1)
High	Off; 0.2 (or Low alarm setting value +0.1) to 30l/min
<b>Respiratory Rate</b>	
Low	Off; 1 to 90bpm (or High alarm setting value -1)
High	Off; 1 (or Low alarm setting value +1) to 90bpm
<b>Inspiratory Pressure</b>	
Low	PEEP+1 to 89cmH <sub>2</sub> O (or High alarm setting value -1)
High	10 (or Low alarm setting value +1) to 90cmH <sub>2</sub> O
<b>Apnea Interval</b>	5 to 60 seconds

# Settable alarms *(continued)*

The following alarms are available only when associated accessories are connected.

User-settable alarm	Range
<b>SpO<sub>2</sub></b>	
Low	Off; 50 to 99% (or High alarm setting -1)
High	Off; 90 (or Low alarm setting +1) to 100%
<b>Pulse Rate</b>	
Low	Off; 18 to 300bpm (or High alarm setting value -1)
High	Off; 18 (or Low alarm setting value +1) to 300bpm
<b>EtCO<sub>2</sub></b>	
Low	Off; 1 to 100mmHg (or High alarm setting value -1)
High	Off; 1 (or Low alarm setting value +1) to 100mmHg
<b>FiO<sub>2</sub></b>	
Low	Off; 21 to 95% (or High alarm setting -1)
High	Off; 27 (or Low alarm setting +1) to 100%

# Trilogy 202 to Trilogy EV300

Trilogy 202 setting	Trilogy EV300 equivalent	Description
AC	A/C-VC	<b>Assist Control (Volume Control) mode</b> provides volume-controlled mandatory or assist-control breaths. The set inspiratory time applies to all breaths.
CV		If you want to replicate CV mode where the ventilator triggers and cycles all breaths then set the trigger type to OFF.
PC	A/C-PC	<b>Assist Control (Pressure Control) mode</b> provides pressure-controlled mandatory or assist-control breaths. The set inspiratory time applies to all breaths. <i>Optional: AVAPS.</i>
T		If you want to replicate T mode where the ventilator triggers and cycles all breaths then set the trigger type to OFF.
S	PSV	<b>Pressure Support Ventilation mode</b> is patient-triggered, pressure-limited, and flow-cycled. The patient determines the breath rate and timing so it is recommended to set back-up ventilation. <i>Optional: AVAPS and Inspiratory Time min/max.</i>
S/T	S/T	<b>Spontaneous/Timed</b> is a bi-level therapy mode where each breath is patient-triggered and patient-cycled, or ventilator-triggered and ventilator-cycled.
CPAP	CPAP	In <b>Continuous Positive Airway Pressure mode</b> , all breaths are spontaneous with the CPAP set pressure delivered in both inhalation and exhalation.
PC-SIMV	SIMV-PC	<b>Synchronized Intermittent Mandatory Ventilation (Pressure Control) mode</b> is a pressure control mode that provides a mixture of mandatory, assist-control and spontaneous breaths with optional pressure support. It guarantees one mandatory breath in each cycle. The breath rate determines the length of the cycle. <i>Optional: Inspiratory Time min/max for the spontaneous breaths.</i>
SIMV	SIMV-VC	<b>Synchronized Intermittent Mandatory Ventilation (Volume Control) mode</b> is similar to SIMV-PC, but with volume control.
AVAPS-AE	AVAPS-AE	<b>AVAPS-Auto EPAP mode</b> automatically adjusts pressure support, to maintain the target tidal volume, and EPAP, to maintain a patent airway, within the set min/max ranges; and simplifies the set-up of the backup breath rate when set to auto. <i>Note: auto back-up rate maximum is 20bpm. Optional: Inspiratory Time min/max.</i>

# Trilogy 202 to Trilogy EV300

(continued)

Trilogy 202 setting	Trilogy EV300 equivalent	Description
	<b>Inspiratory Time Min/Max</b>	Once enabled, this setting treats inspiration time as a variable value for patient-initiated, patient-cycled breaths. It is available in S/T, PSV, SIMV-PC, SIMV-VC, and AVAPS-AE modes, under Advanced in the Prescription Settings window.
<b>AVAPS Rate</b>	<b>AVAPS Speed</b>	This sets the maximum rate of change in pressure between the min and max values while AVAPS is seeking a volume target.
	<b>PC Breath (AVAPS-AE)</b>	Available in AVAPS-AE mode. When PC Breath is on, the set inspiratory time applies to all breaths.

Available without a static maneuver for mandatory or assisted-breaths in A/C-PC, A/C-VC, SIMV-PC, or SIMV-VC modes with the passive, active flow, or dual-limb circuits.

New lung mechanics in Trilogy EV300		Description
<b>Dyn C</b>		Lung compliance is the ratio of the tidal volume to the alveolar pressure at the end of inspiration. In Trilogy EV300, Dyn C is an estimate of the static compliance of the pulmonary system (lung and chest wall) measured dynamically (without an inspiratory hold) in ml/cmH <sub>2</sub> O.
<b>Dyn R</b>		Airway resistance is the opposition to the motion of gas within the airways. In Trilogy EV300, this value is Dyn R (dynamic resistance) and is an estimate of the change in pressure divided by the air flow through the airways measured in cmH <sub>2</sub> O/l/sec.
<b>Dyn Pplat</b>		Plateau pressure is the maximum pressure applied to small airways and alveoli during positive-pressure mechanical ventilation. In Trilogy EV300, this value is Dyn Pplat (dynamic plateau pressure) and is the estimate of the maximum alveolar pressure during inspiration (volume/Dyn C) measured in cmH <sub>2</sub> O.
<b>AutoPEEP</b>		AutoPEEP is the estimate of the any pressure (above PEEP) that exists in the patient airway at the end of exhalation. In Trilogy EV300, this value is AutoPEEP and is measured in cmH <sub>2</sub> O.







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