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The Philips Respironics V680 Two Ventilators in One

innovation you

Philips Respironics V680
Value summary

Easy to use	Versatile operation	Fast turnaround	Enhance patient care

PHILIPS
Flow-Volume
Pressure-Volume
Active Mode: PRVC
RESPIRONICS
V680

Easy to use

Easy
to use

Simple, familiar operation

- Based on the Philips Respironics V60 screen layout
- If you have a V60, your training time is greatly reduced with V680

Easy
to use

Simple, familiar operation

Not available in USA

Easy
to use

Auto-Trak+

- Auto-Trak+ virtually eliminates frequent adjustments
- Enhances patient-ventilator synchrony
- Leaves more time with your patients and not on the machine

Versatile operation

Versatile operation

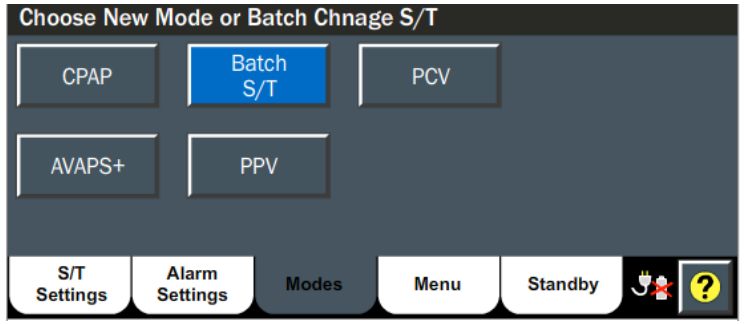
Expanded pediatric range

Pediatrics 5kg – 20 kg

Adult > 20 kg

Versatile operation

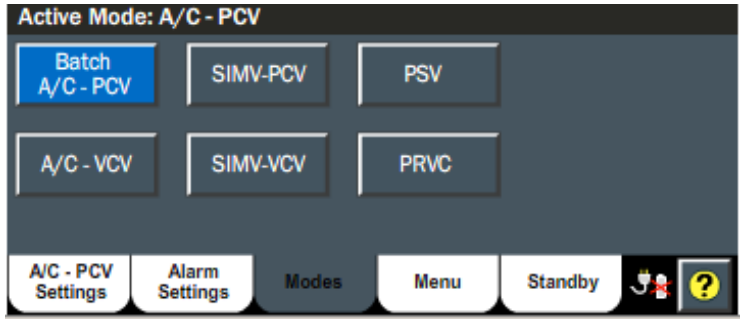
Single-limb noninvasive ventilation



- Same NIV modes as V60
- Auto-Trak+
- Enter Mask Leak value directly
- Escalating alarms

Versatile operation

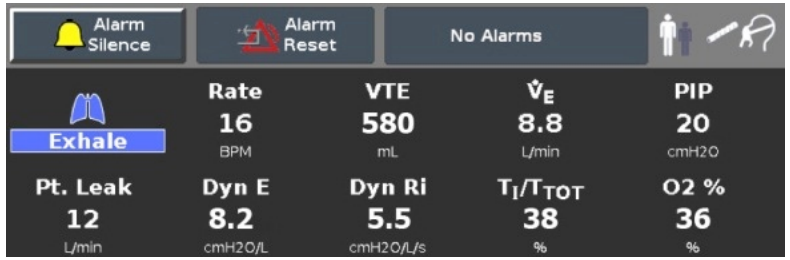
Dual-limb invasive ventilation



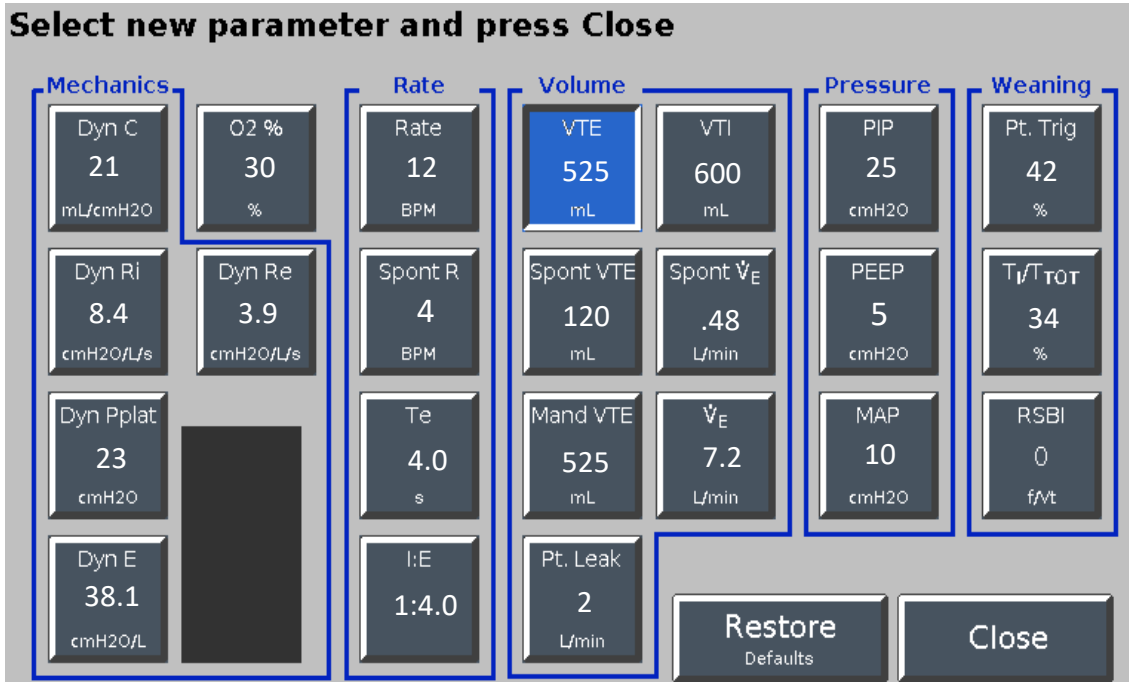
- Simple, familiar operation
- Dual-limb
  - No proprietary valves or sensors
- Active exhalation valve
- Escalating alarms
- Emergency ventilation
- Respiratory mechanics
- Loops

Versatile operation

Enhanced monitoring features

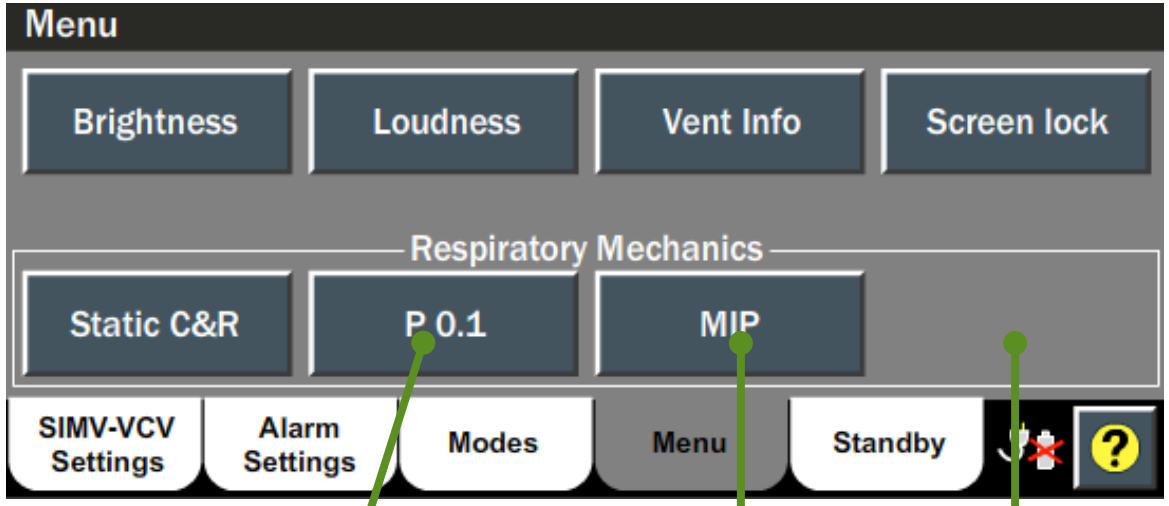


Nine live patient data points can be configured from a selection of up to 23 parameters



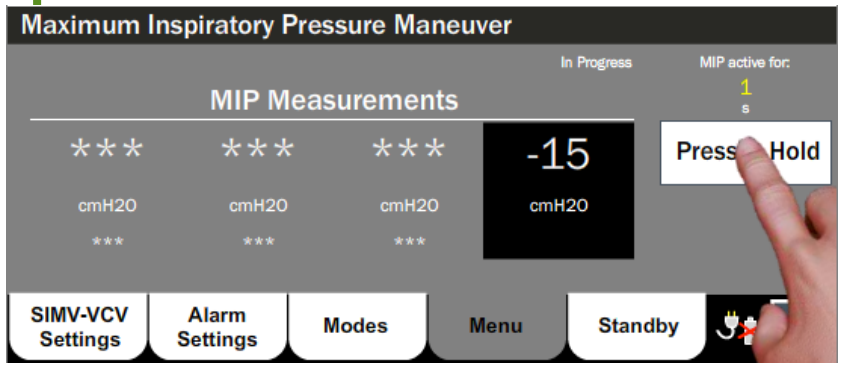
Versatile operation

Respiratory mechanics



When selected, changes to square flow delivery for measurement

When selected, measures inspiratory effort during first 100 ms on next breath



Fast turnaround

Fast turnaround

Simple circuit

- No proprietary flow sensors or diaphragms
- Change the circuit, test, and go

Not available in USA

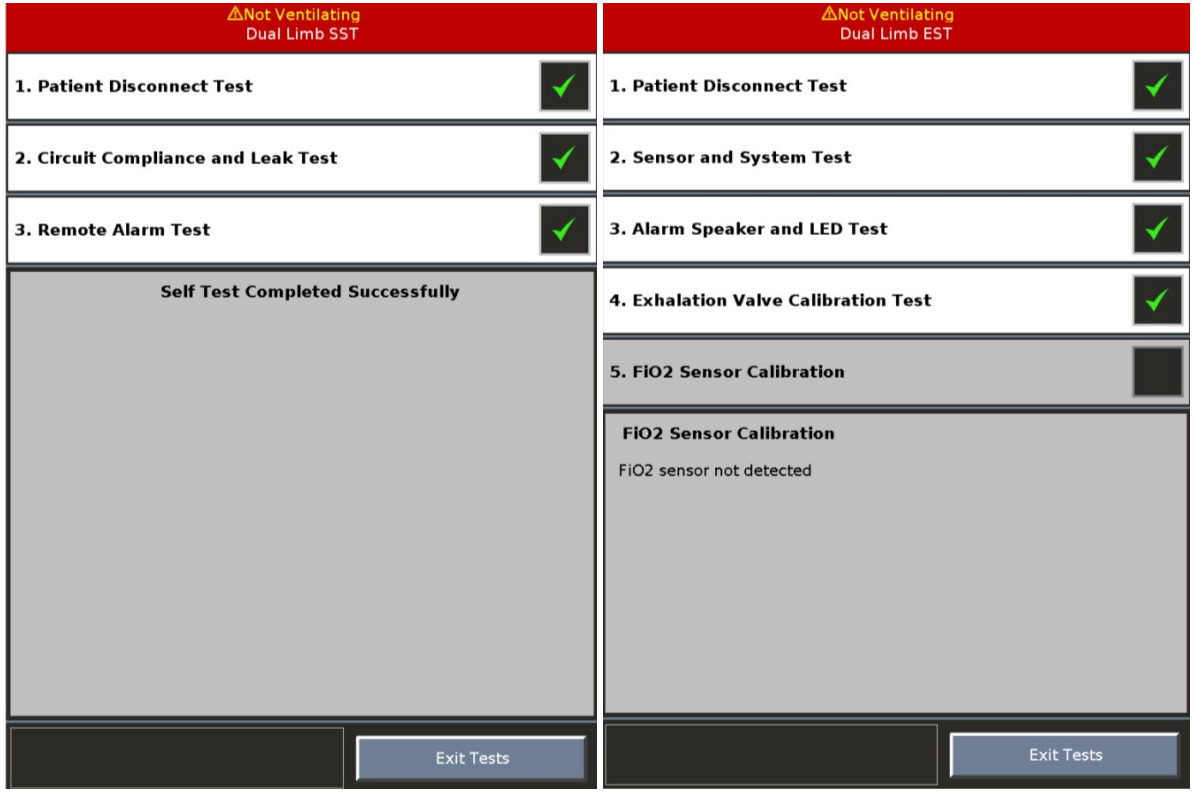
Fast turnaround

eSYS cartridge

- Self-contained exhalation cartridge
- No need to change if pre-filtered
- Easy to remove for autoclaving

Fast turnaround

Pre-use check



Prompts to guide the user

Short self test (SST)

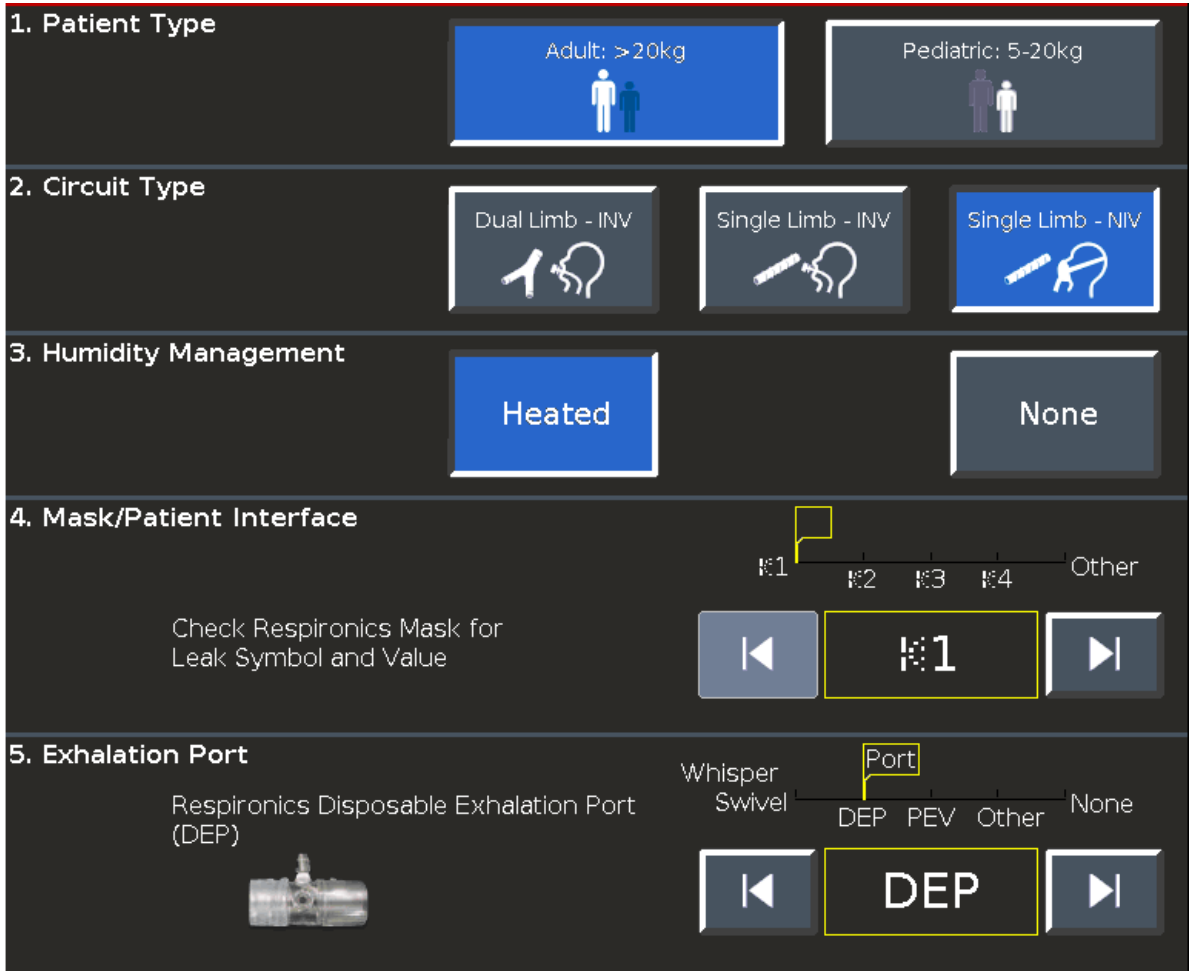
- Approximately 30 seconds

Extended self test (EST)

- Approximately 3 minutes

Fast turnaround

Selecting mask and exhalation port



- Similar to the V60
- Enter mask leak value
- Enter exhalation port
- Start ventilation

Enhance patient care

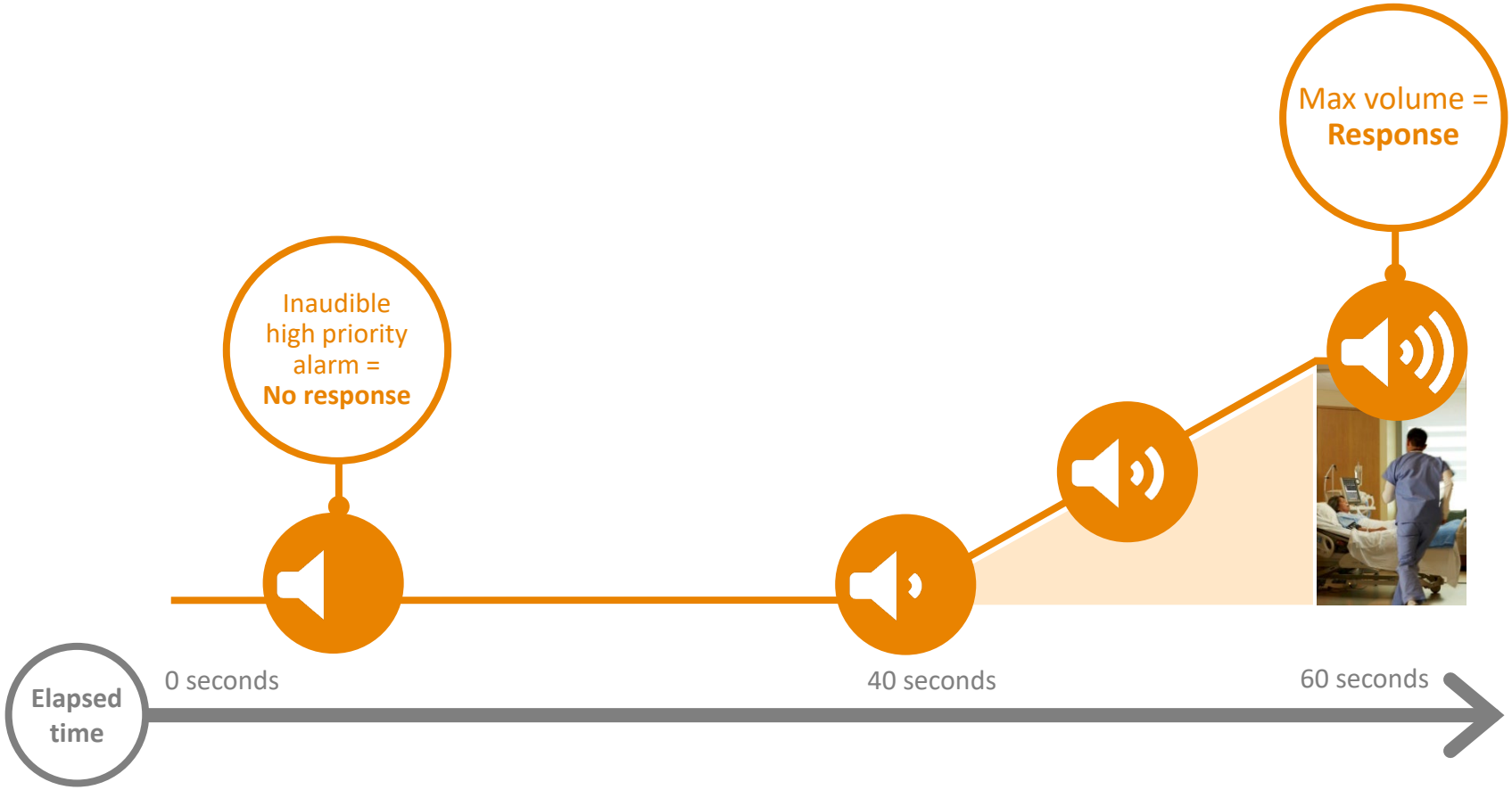
Enhance patient care

Alarms and back-up ventilation

- Advanced alarm management
- Emergency ventilation mode
- Apnea back-up

Enhance patient care

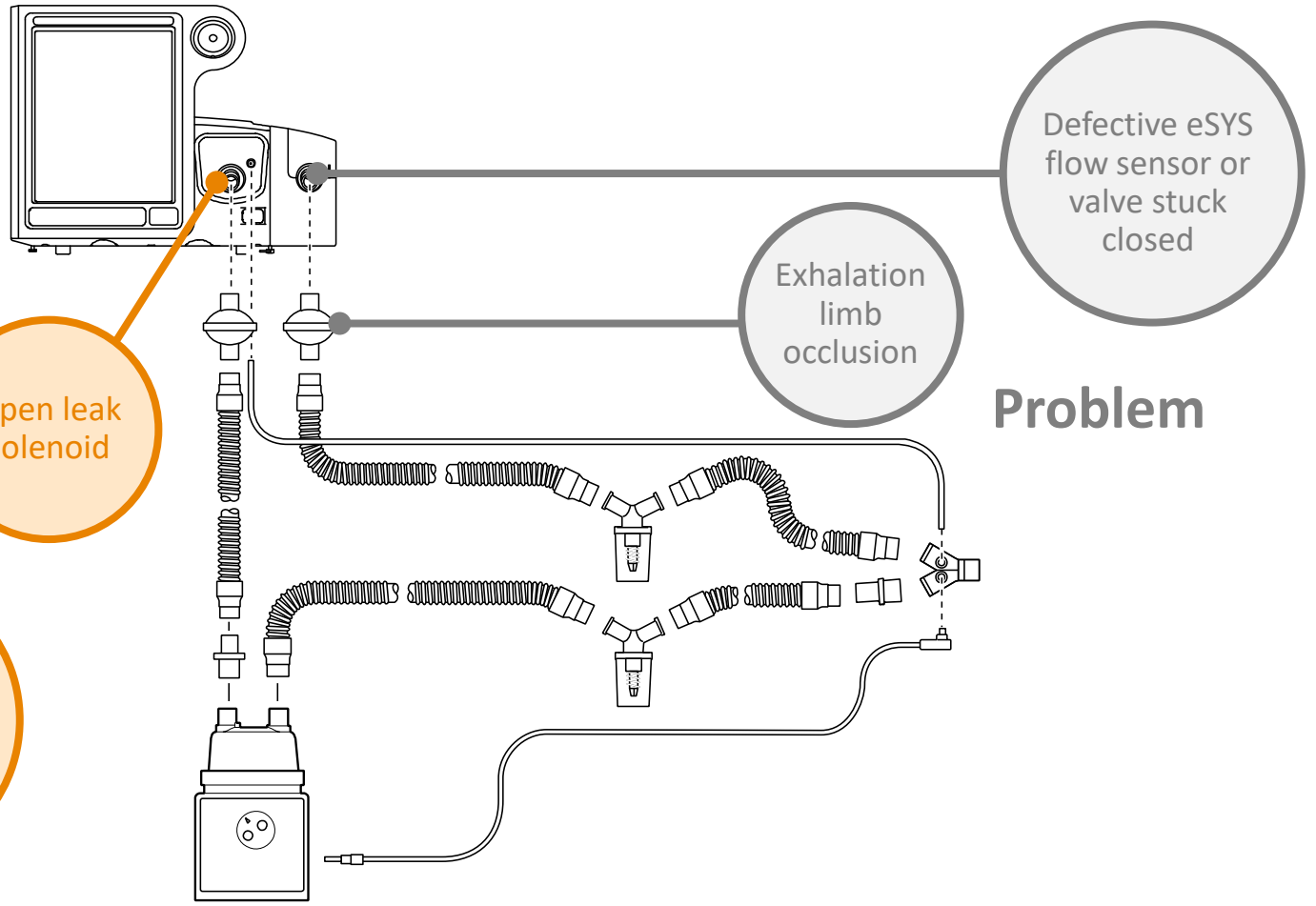
Auto-escalating alarm volume



Not available in USA

Enhance patient care

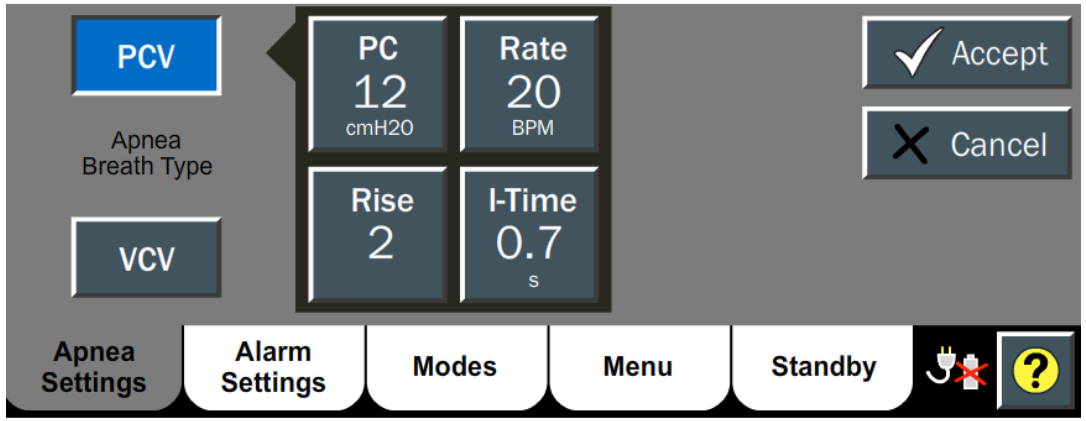
Emergency ventilation mode

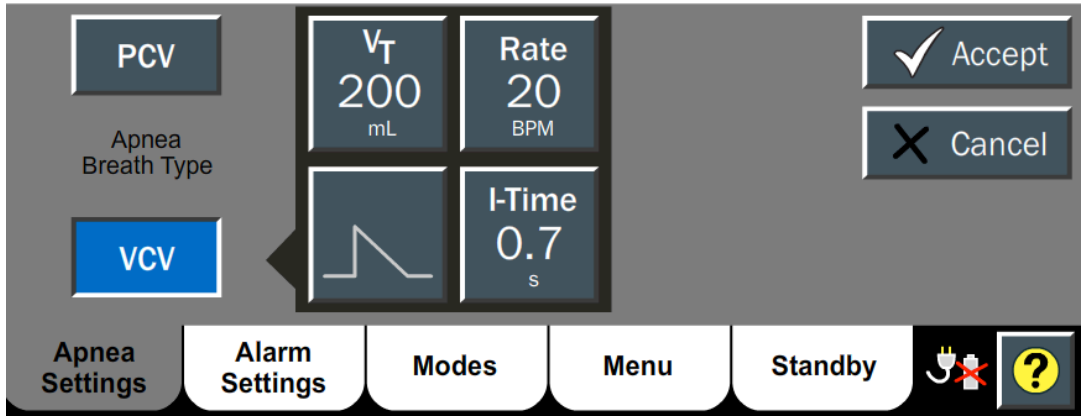


Not available in USA

Enhance patient care

Emergency ventilation mode





Apnea back-up ventilation is available in CPAP mode with alarm.

Single-limb

- CPAP
- PSV
- SIMV-VCV

Dual-limb

- SIMV-PCV

Enhance patient care

Precise pressure regulation

- eSYS engages active exhalation valve
- Voice-coil technology
- Relieves excessive pressures in circuit

Philips Respironics V680
Value summary

Easy to use	Versatile operation	Fast turnaround	Enhance patient care

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Philips Respironics V680 v1.30 software
What has changed from v1.20?

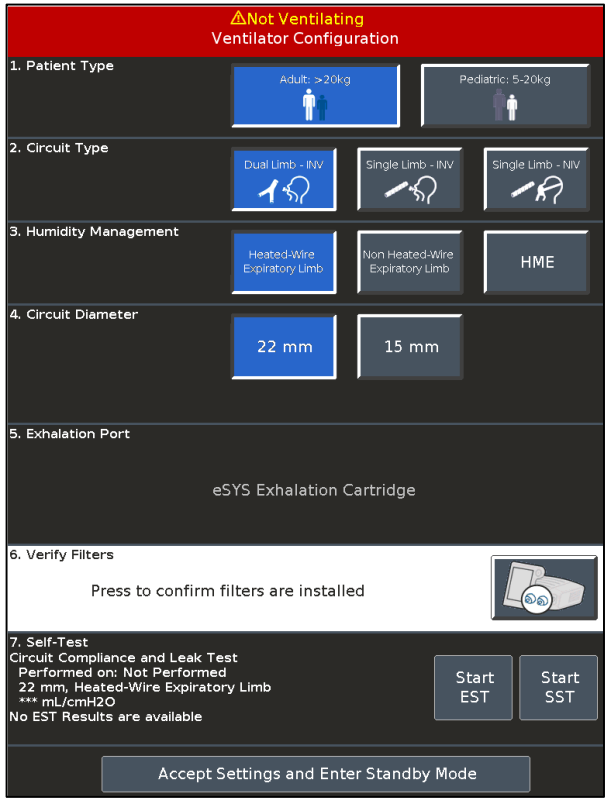
Hans Durinck
Clinical Marketing Manager, HRC
June 2019

innovation you

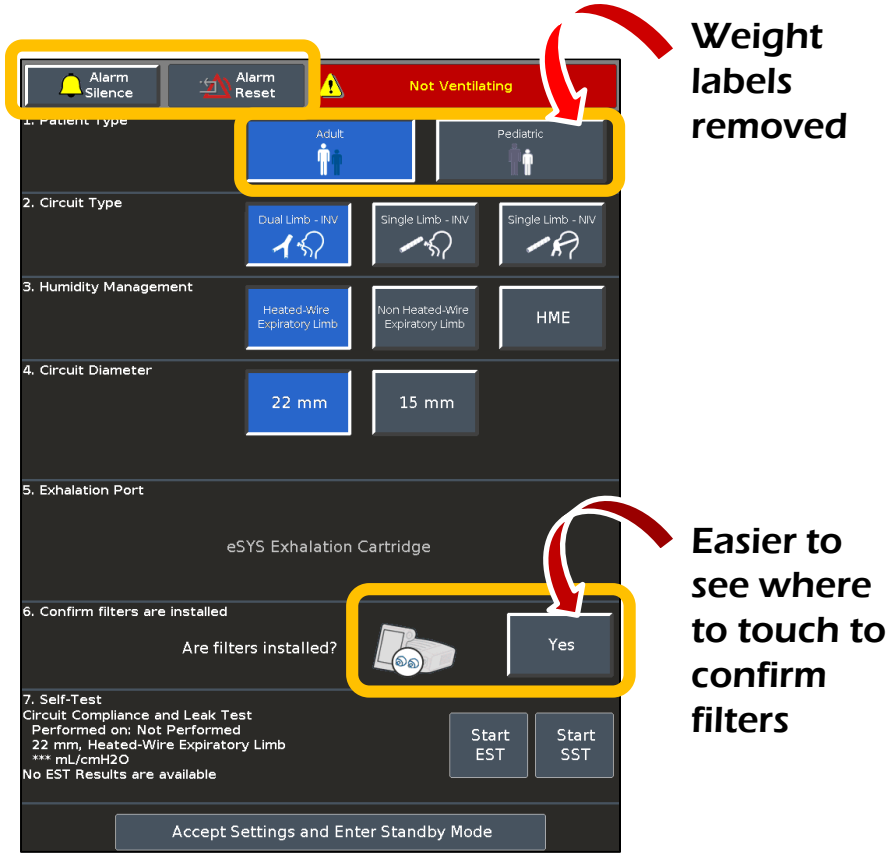
What *is different with v1.30 software*

- Simplified screen operation
- Workflow enhancements
- Nuisance alarm eliminations and reductions
- Flow-Trak automatic flow delivery in Volume Control
  - If Peak Flow is too low, patient can draw additional flow
- Flow-Volume and Pressure-Volume Loop Overlay
  - Up to five loops can be saved, time and date stamped, and displayed over each other

Screen changes



v1.20 Software

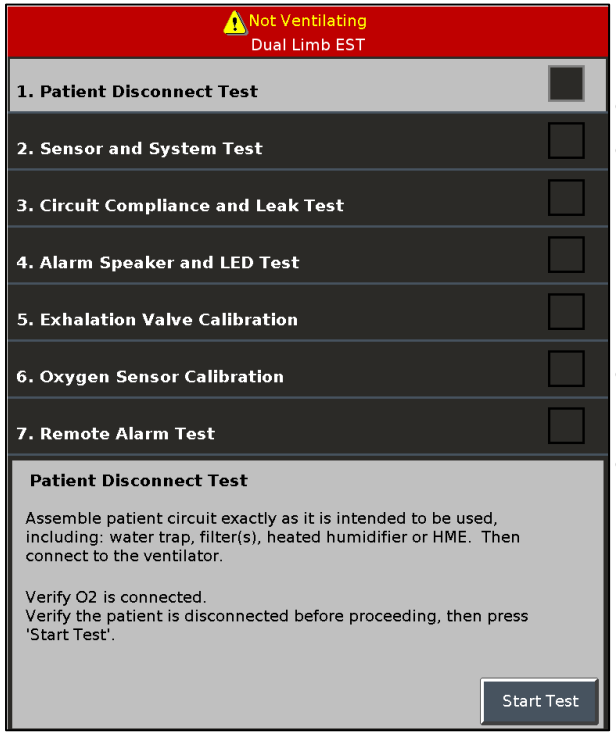


v1.30 Software

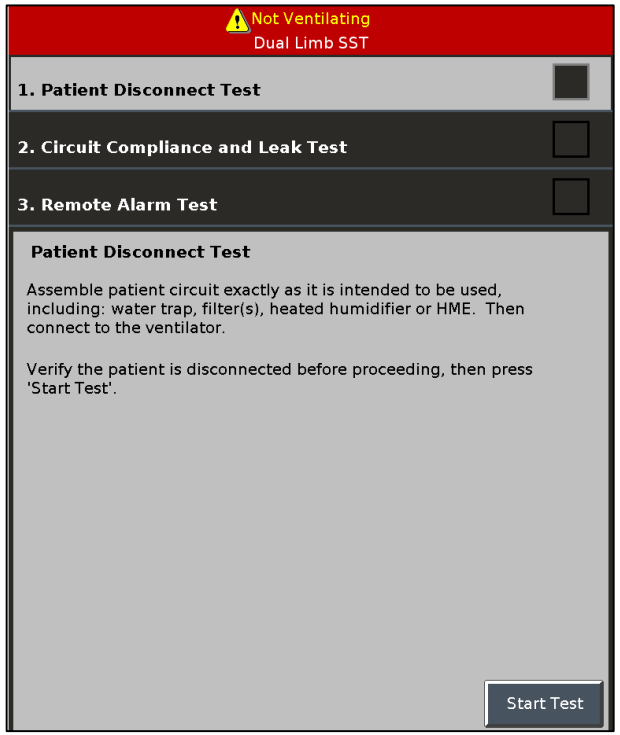
Weight labels removed

Easier to see where to touch to confirm filters

Changes to EST and SST



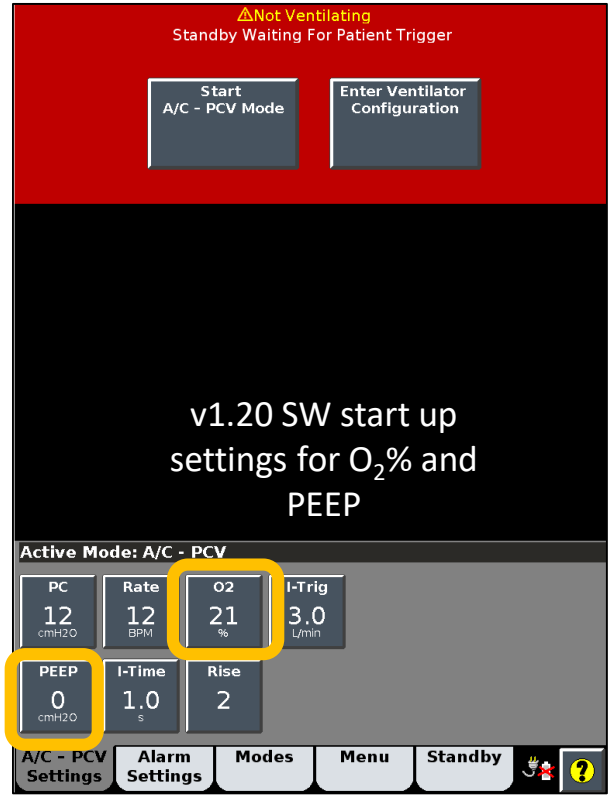
- EST has it all.
- You no longer have to run the SST and then EST between patients.
- Only run the EST.
- Use SST for circuit changes only.



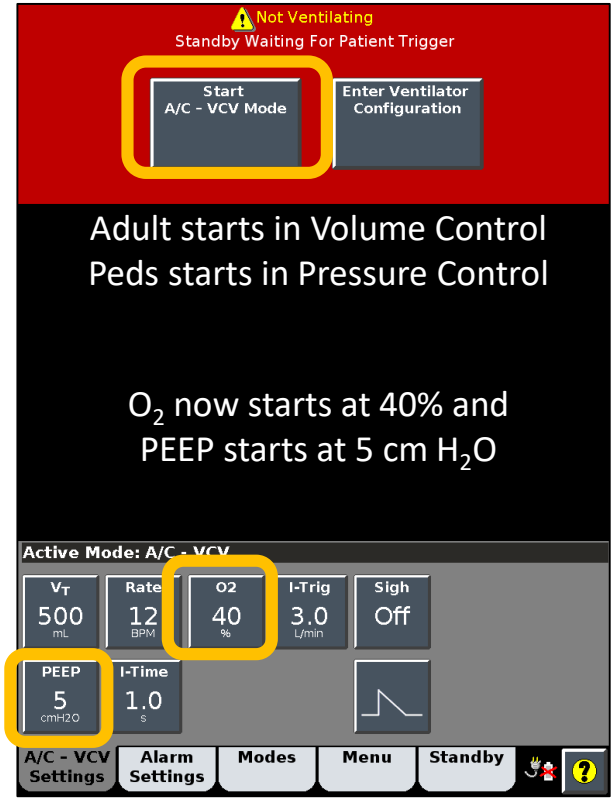
- SST will pass a wider range of circuits and filters.
- Always run SST with all filters, humidifiers and adapters

With the v1.30 SW cross-calibration feature requires O_2 connection for EST and SST.

Screen changes
(v1.30 SW start up settings)



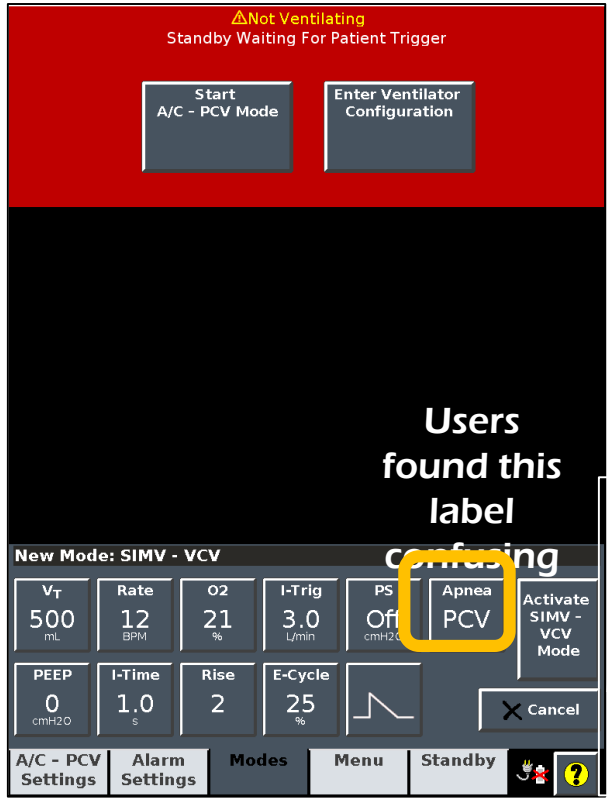
v1.20 Software



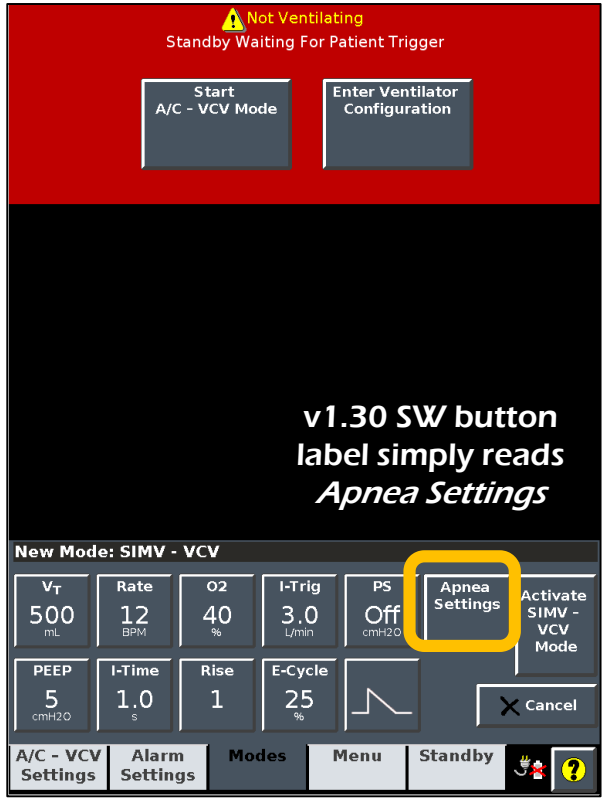
v1.30 Software

Screen changes

(Apnea settings simpler)



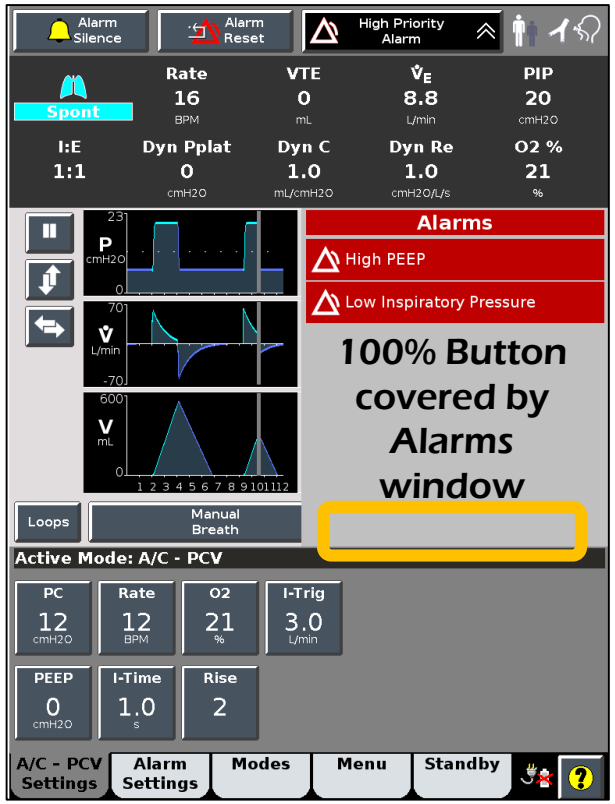
v1.20 Software



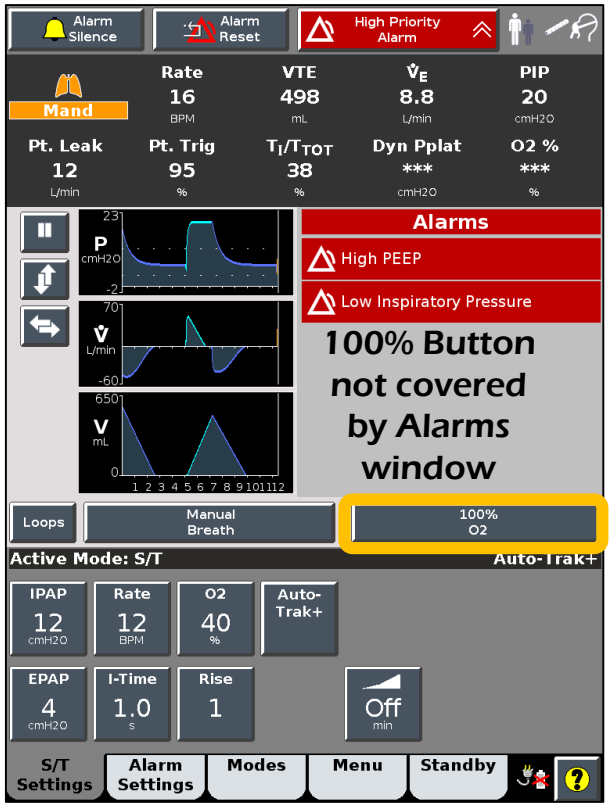
v1.30 Software

Screen changes

(100% O2 Button always displayed)

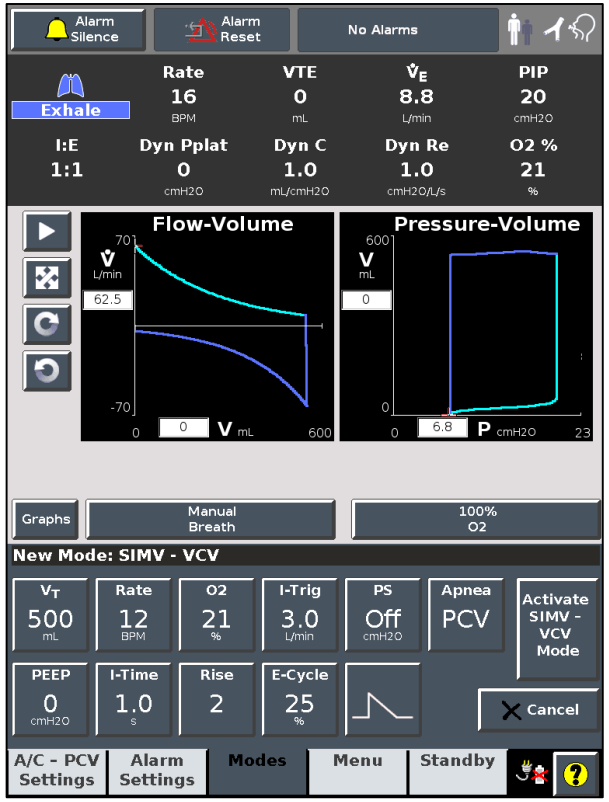


v1.20 Software



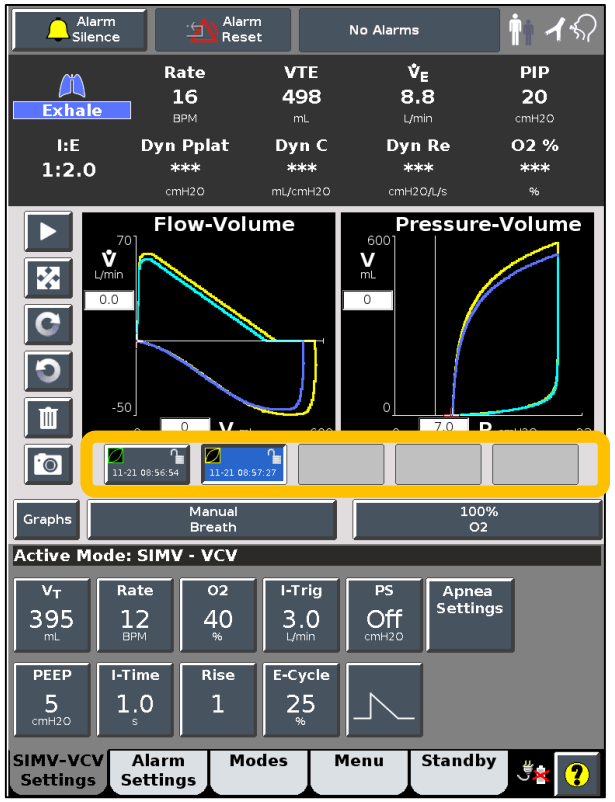
v1.30 Software

Screen changes
(Loop save and overlay)



v1.20 SW Software

v1.30 SW controls for saving and deleting loop overlays

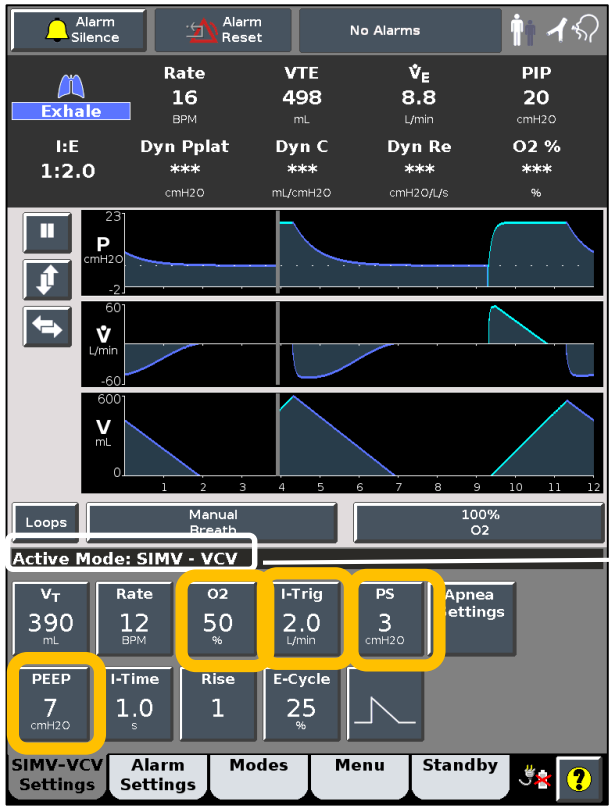


v1.30 Software

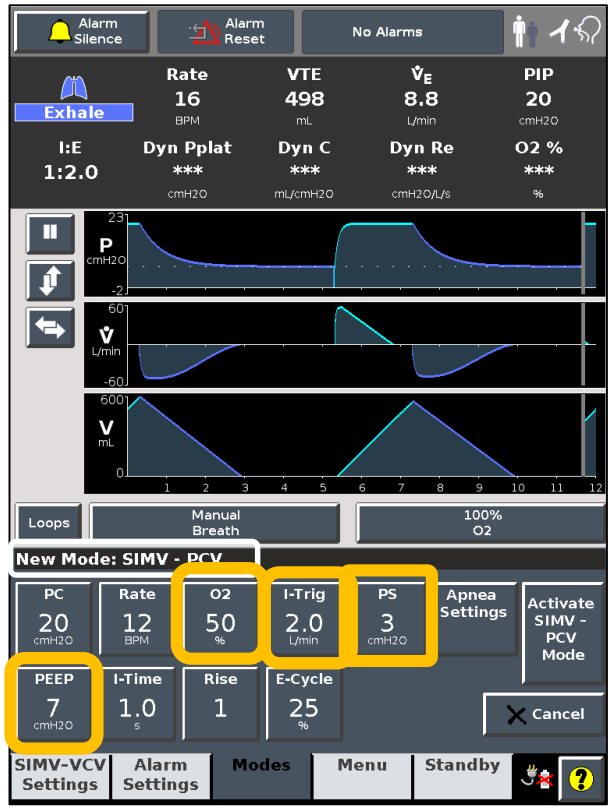
Save up to 5 loops with date and time stamps for trending. Button Color matches loop color for easy identification.

Other screen changes

(Common settings retained)



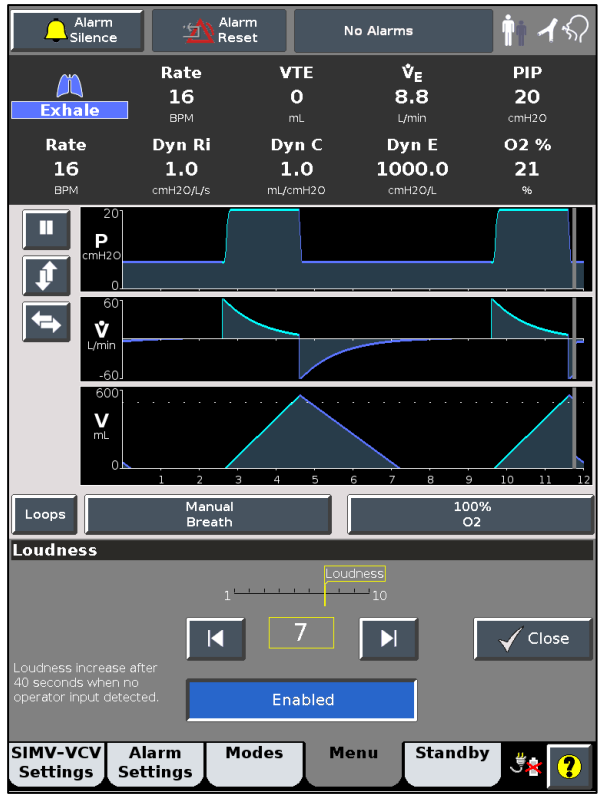
v1.30 Software



v1.30 Software

Other screen changes

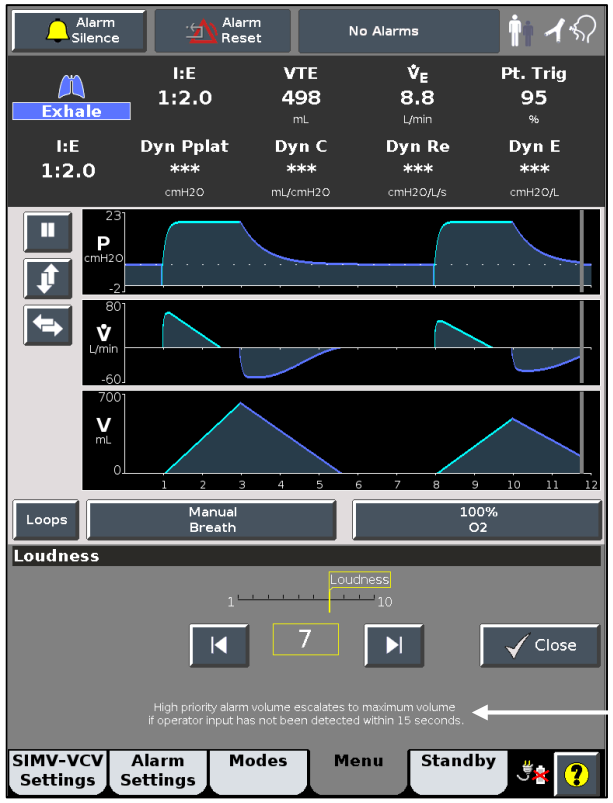
(Escalating alarm volume)



v1.20 Software

Enabled and disabled in Loudness Menu tab.

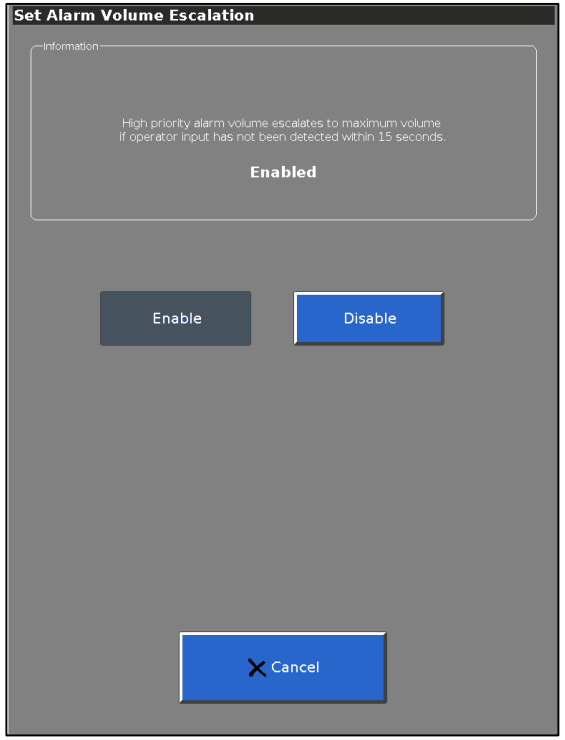
Time delay was 40 seconds.



v1.30 Software

Enabled and disabled in Diagnostic Screen System Settings.

User informed time delay is now 15 seconds.



v1.30 Software

Enabled and disabled in Diagnostic Screen System Settings.

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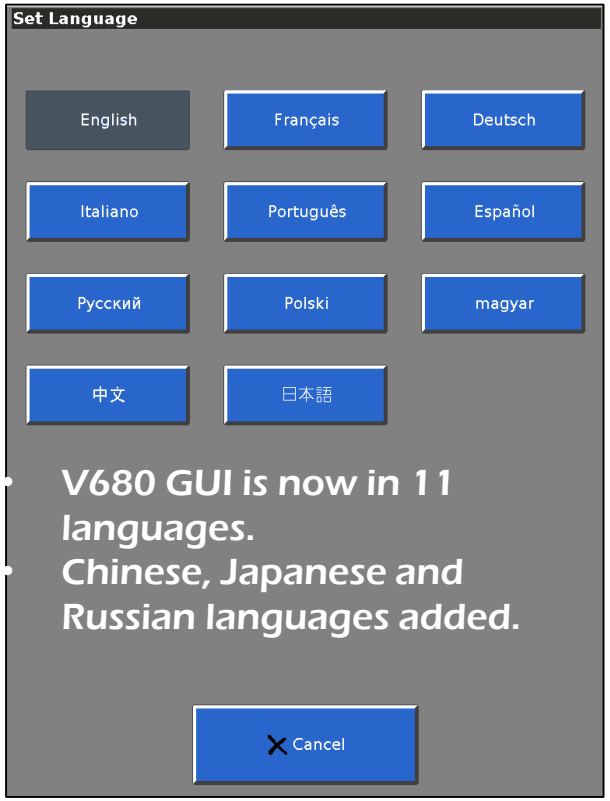
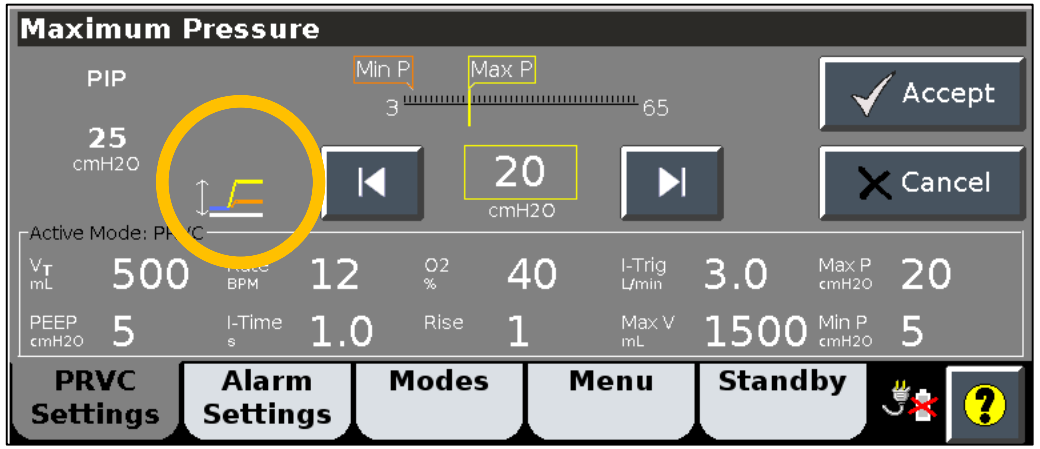
Other screen changes



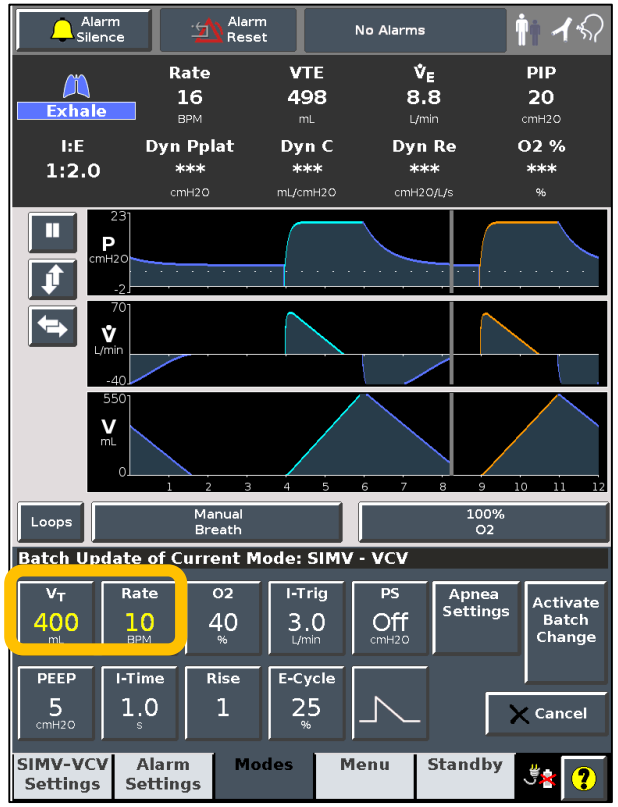
- V680 GUI is now in 11 languages.
- Chinese, Japanese and Russian languages added.



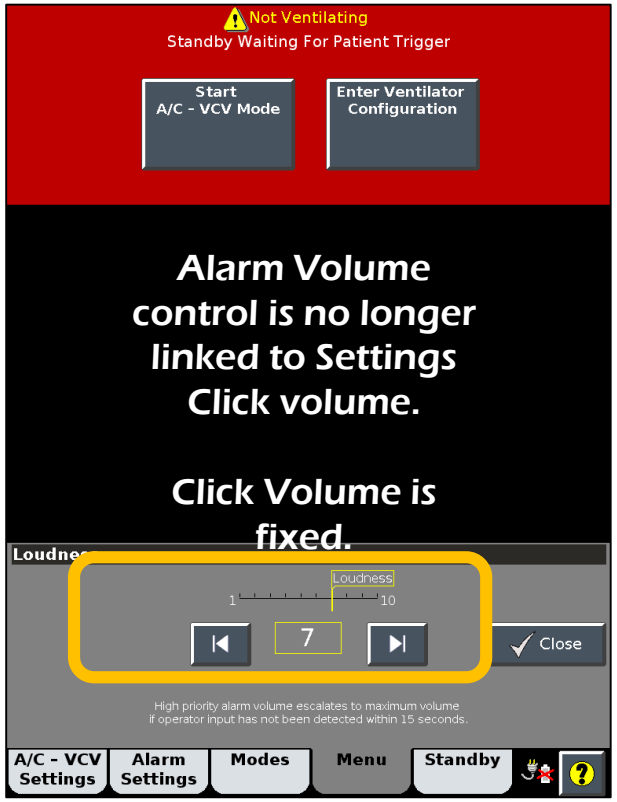
PRVC MaxP and MinP are relative to PEEP now. Before they were absolute.

Other screen changes

(small but important)



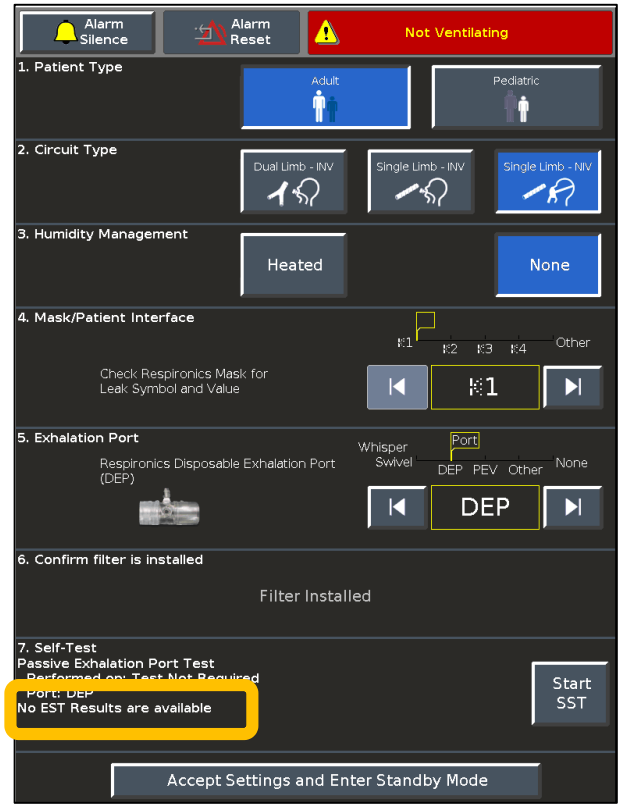
v1.30 Software



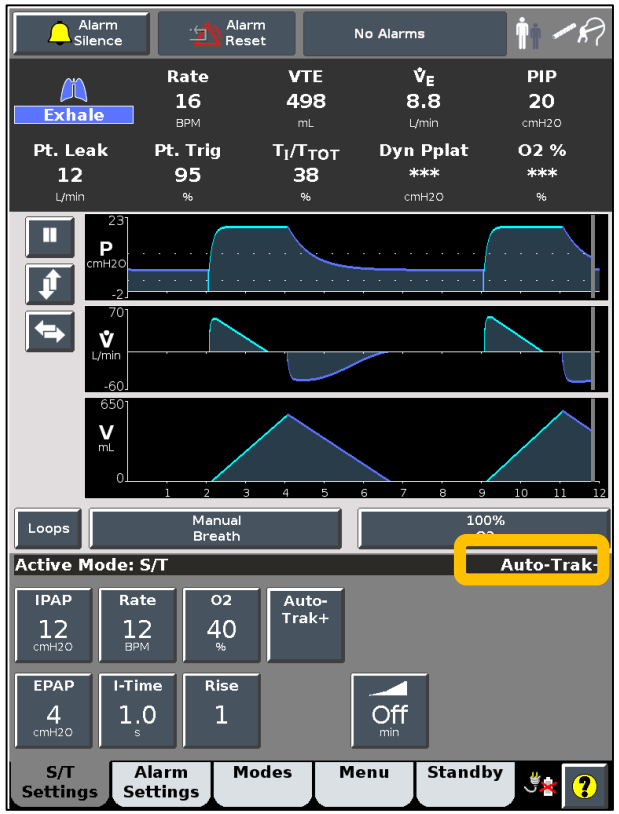
v1.30 Software

Other screen changes
(Single limb set up)

EST status now displayed to show why you cannot advance out of config. screen



v1.30 Software

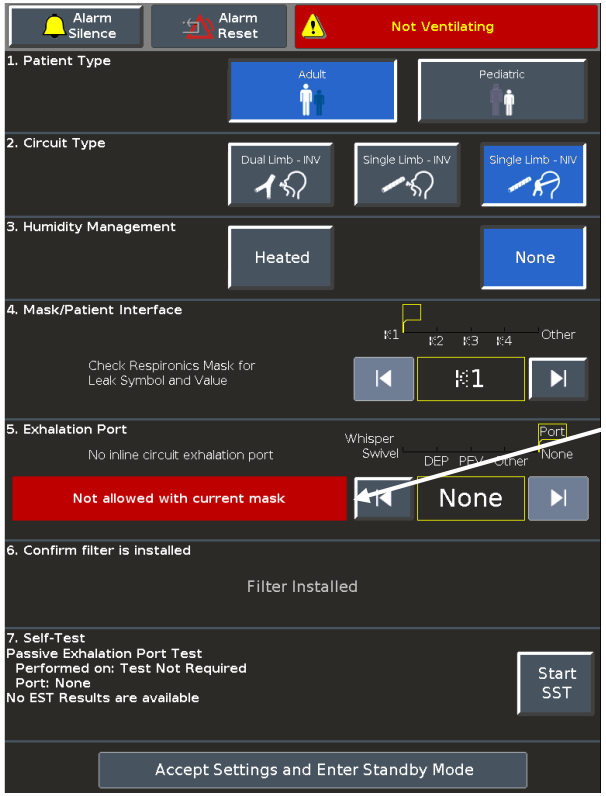


If Auto-Trak+ settings are changed, label is displayed on mode status bar

v1.30 Software

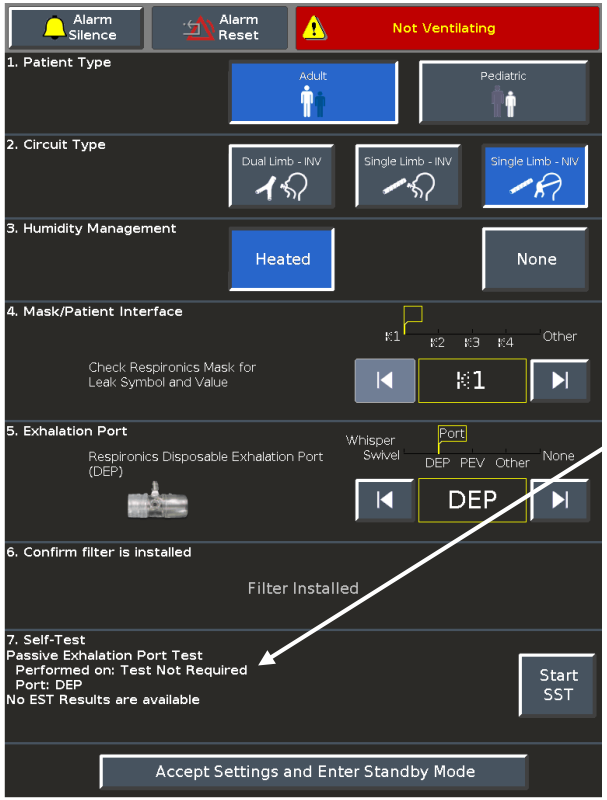
Other screen changes

(Single limb set up)



v1.30 Software

If mask and port selection is not allowed, message will alert user. Before, user could not advance to next screen but did not know why.

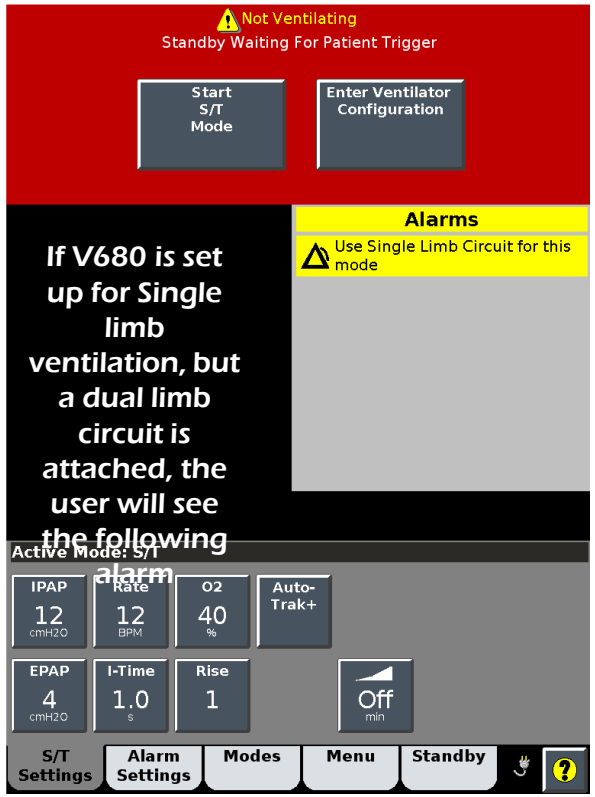


v1.30 Software

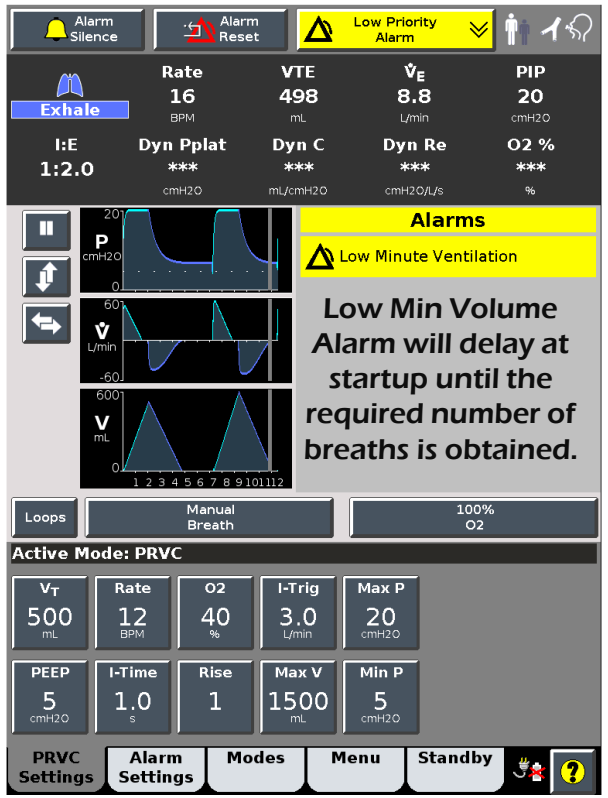
If Leak 1 and DEP are selected, no port test is required. SST button is available for Remote Alarm Test only.

Other screen changes

(Single limb set up)

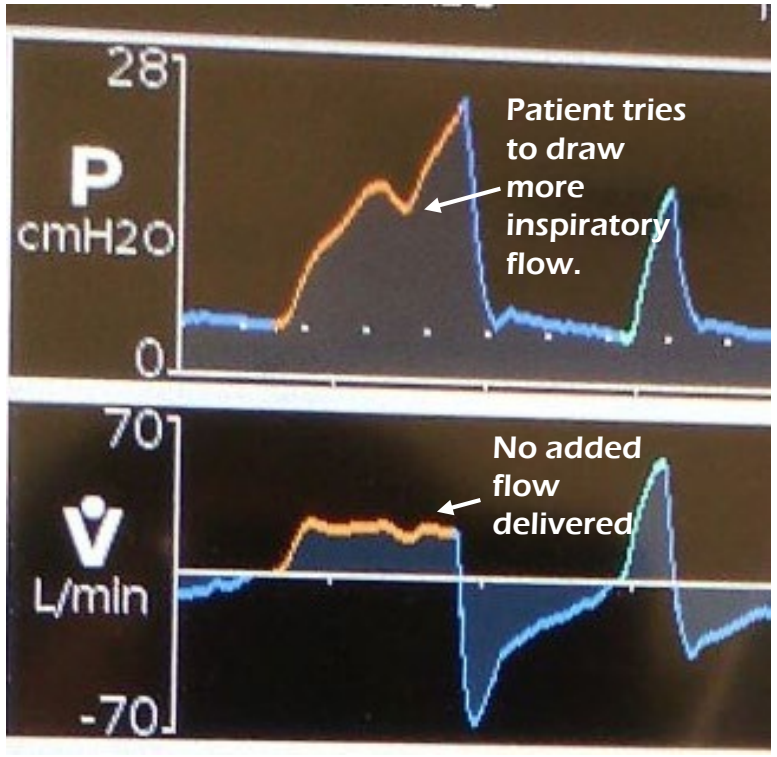


v1.30 Software

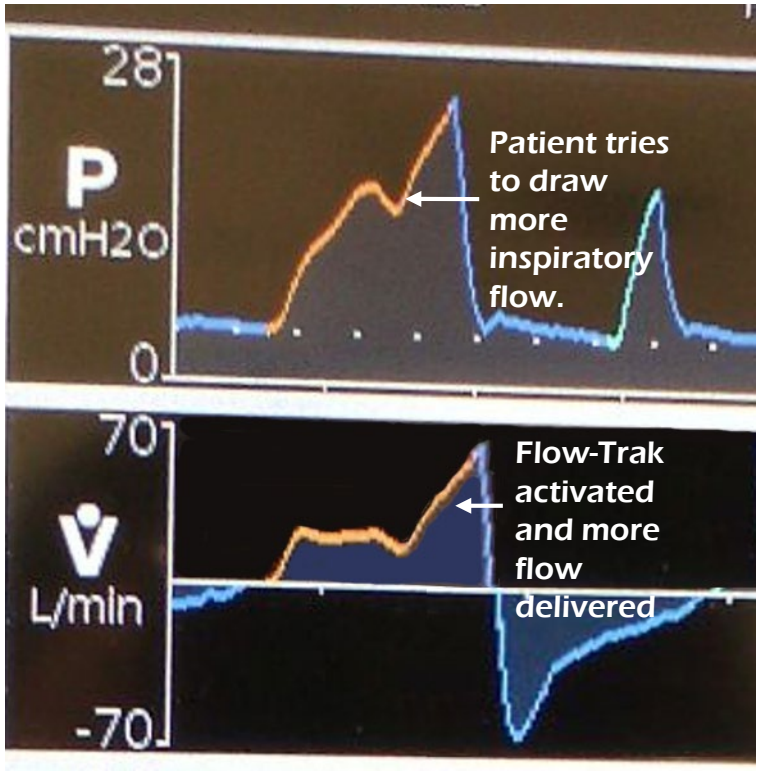


v1.30 Software

Flow-Trak provides additional flow on demand if the set Peak Flow is not high enough to satisfy the patient's inspiratory flow requirements.



v1.20 Software without Flow-Trak



v1.30 Software with Flow-Trak

Philips Ventilator Open Interface (PVOI)

- V680 Expanded communications protocol
- Available to all monitor and EMR providers for driver creation

V680 v1.30 software enhancements

Patient configuration

- FiO_2 and PEEP default settings are now 40% and 5 cmH_2O
- SST and EST are now combined
- Failed EST is noted in Single Limb
- Patient weight ranges removed
- Message alerts when incorrect mask with exhalation port is selected
- Press **YES** to confirm filters

During Ventilation

- The Manual Breath and 100% are fully visible even during active alarms.
- Touch sound is fixed and not linked to alarm volume adjustment
- Save and recall up to 5 loops with date and time stamps
- Additional languages added: Simplified Chinese, Japanese, and Russian
- Batch setting labels are bolder yellow

V680 v1.30 software enhancements

Dual Limb

- When changing breath type Apnea mode will match and the label now reads “Apnea Settings”
- Eliminated Low Minute Volume nuisance alarm at start-up
- Default settings updated and common ventilator settings retained when changing modes
- Flow-Trak Demand Flow ensures that the patient’s inspiratory demand flow is met in volume ventilation
- PEEP is relative in PRVC

Single Limb

- Auto-Trak+ displayed when settings have been changed from “Normal”
- Notification if a dual limb circuit is in place when Single Limb ventilation selected

Auto escalation alarm

- Abled and disabled through diagnostic mode and displays in Menu tab under “Loudness”
- Time to volume escalation is now 15 seconds

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