






Table 1. List of components required for the assembly of the iSAVE

Required Components for Closed-circuit (dual limb) Ventilator
Per patient: <input type="checkbox"/> 2 one-way valves <input type="checkbox"/> 1 pressure release valve <input type="checkbox"/> 1 flow regulator <input type="checkbox"/> bacterial/viral filters <input type="checkbox"/> set of pressure/volume sensors <input type="checkbox"/> capnostat <input type="checkbox"/> respiratory profile monitor
Required Components for Open-circuit (single limb) Ventilator
Per patient: <input type="checkbox"/> 1 flow regulator <input type="checkbox"/> 1 bacterial/viral filter <input type="checkbox"/> 1 set of pressure/volume sensors (optional) <input type="checkbox"/> 1 capnostat (optional) <input type="checkbox"/> 1 monitor (optional)

Supplemental Table 2. Mechanical components used in the iSAVE and their equivalents, readily available in the medical industry.

Mechanical Component	Medical Equivalent
One-way valve	<p data-bbox="553 422 1219 453">Positive expiratory pressure (PEP) threshold device</p> <p data-bbox="553 489 1073 520">Unidirectional resistance/one-way valve</p> 
Pressure release valve	<p data-bbox="553 737 1154 768">Positive end-expiratory pressure (PEEP) valve</p> 
Flow regulator	
Bacterial/viral filters	
Pressure/volume sensors	

CO₂ sensor

E.g., Capnostat for volumetric capnography (including ETCO₂ monitoring) or LoFlo for ETCO₂ monitoring



Respiratory profile monitor

