

This is a description of the components used to build the **alpha** version of the AAU Pandemic Ventilator with details when critical for performance of the system.

Type	Description	Quantity	Make	Model	Parts number
Critical components	Solenoid valves for delivering O <sub>2</sub> and air	2	SMC	PVQ31-5g-23-01	
	Magnet valve for expiration	1	SMC	VXZ262LGK	
	PEEP valve	1	AMBU	2.5 – 20 cmH <sub>2</sub> O	
	Pressure relief valve	1	Witt	AV619, 80 cmH <sub>2</sub> O	
	Pressure sensor	1	IFM	PA3589	
	Medical gas regulator	2	RM1L-1GS-NFV	FAS	
	Pressure gauge	2	Plesner	111.10.040	
Control and user input	PLC	1	Allen Bradley	CompactLogix 5370, 1769-L27ERM-QBFC18	
	4-20 mA converter	2	SMC	CONVERT.4-20ma MOD	
	Screen	1	Allen Bradley	PanelView 800 4" TFT	
	Powersupply, 24V DC	1	Wago	787-1675	
	Battery, 24V DC	1	Wago	787-876	
Assembly and supply	Box for assembly. 400x400x200mm	1			
	5m powercord	1			
	5m O <sub>2</sub> hose	1			
	5m air hose	1			
	Hose nipples	2			
	Wiring				
	Piping				

This is a description of the components used to build the **beta** version of the AAU Pandemic Ventilator with details when critical for performance of the system.

Type	Description	Quantity	Make	Model	Parts number
Critical components	Solenoid valves for delivering O <sub>2</sub> and air	2	SMC	PVQ31-5g-23-01	
	Magnet valve for expiration	1	SMC	VXZ262LGK	
	PEEP valve	1	AMBU	2.5 – 20 cmH <sub>2</sub> O	
	Pressure relief valve	1	Witt	AV619, 80 cmH <sub>2</sub> O	
	Pressure sensor	2	IFM	PT5404	
	Pressure sensor low	1	IFM	PA3589	
	Flow sensor	1	Sensirion	Sensirion 3020	
	Medical gas regulator	2	RM1L-1GS-NFV	FAS	
	Pressure gauge	2	RM1L-1GS-NFV	FAS	
Control and user input	PLC + Screen (option 1)	1	Allen Bradley	PLC: CompactLogix 5370, 1769-L27ERM-QBFC18 Screen: PanelView 800 4" TFT	
	PLC + Screen (option 2)	1	IFM	PLC + Screen: CR1059 I/O modules: CR0403 + AL1121	
	Powersupply	1	Wago	787-1675	
	Battery	1	Wago	787-876	
Assembly and supply	Box for assembly. 400x400x200mm	1			
	5m powercord	1			
	5m O <sub>2</sub> hose	1			
	5m air hose	1			
	Hose nipples	2			
	Wiring				
	Piping				

