AAU Pandemic Ventilator

PN-RI001-80-001-A-BOM AAU Pandemic Ventilator (Bill of Materials)
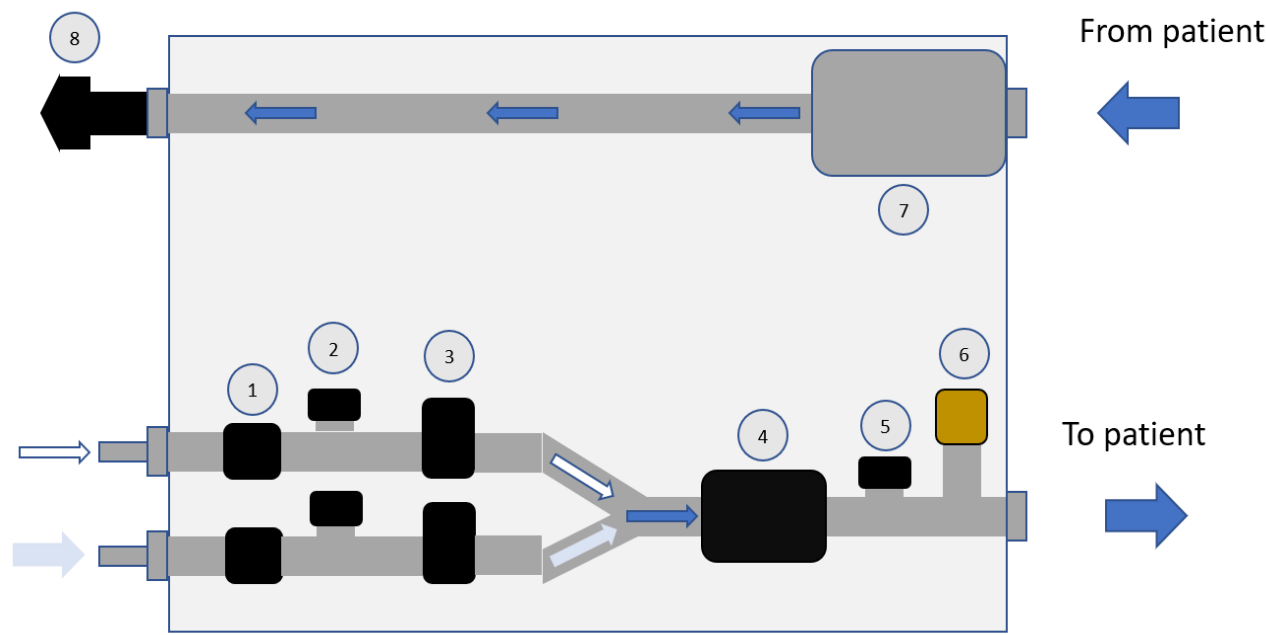

Figure 1: Part overview

PART CATEGORIES	ID	Definition
	FUNC	Functional components
	UI	User input and control
	EXT	External connections
	BOX	Box
	ASM	Assembly

Notice:

The parts included here are examples of parts that have been used to build the AAU pandemic ventilator. The list should not be interpreted as endorsement by Aalborg University for any of the manufacturers or manufacturers parts included here.

PART NUMBER	CAT	DESCRIPTION	QTY	VENDOR CODE	VENDOR	COMMENT
	FUNC	Pressure sensor 0-10 bar G1/4'' 4-20mA M12	2	PT5404	IFM electronic A/S	#2 on figure
	FUNC	Solenoid valve 0-100l/min 24 VDC 3/8''	2	255467	Bürkert Danmark A/S	#3 on figure
	FUNC	Controller for solenoid valve	2	316530	Bürkert Danmark A/S	#3 on figure
	FUNC	Mass flow sensor -10 - 160 L/min	1	SFM 3020	Sensirion	#4 on figure
	FUNC	Pressure sensor 0-0,1 bar G1/4'' 4-20mA M12	1	PA3589	IFM electronic A/S	#5 on figure
	FUNC	Pressure relief valve, 80 cmH2O	1	AV619, 80 cmH2O	Witt	#6 on figure
	FUNC	Solenoid valve 2/2 NC G1" ø25 24VDC 10 bar	1	VXZ262LGK	SMC A/S	#7 on figure
	FUNC	PEEP valve 2,5 - 20 cmH2O	1	000 177 000	AMBU A/S	#8 on figure
	UI	PLC CompactLogix 5370 Controller 1769-L27ERM-QBFC1B	1	1769-L27ERM-QBFC1B	Wexøe A/S	
	UI	Touchscreen TFT 4'' for PLC 2080	1	2711R-T4T	Wexøe A/S	
	UI	Power supply 24VDC 100-230VAC	1	787-1675	WAGO Denmark ApS	
	UI	Battery 24V DC [21003015]	1	787-876	WAGO Denmark ApS	
	UI	Power converter 24VDC to 5 VDC 0,5A	1	787-2801	WAGO Denmark ApS	
	UI	Buzzer 24V DC 80dB(A)	1	107.000.75	WERMA Signaltechnik GmbH + Co. KG	
	UI	Push button 1-pole with LED 24 V ø22mm	1		FLAIRMO DK	
	UI	Power button lid	1	800F-AL01	Wexøe A/S	
	EXT	Air and oxygen hoses 5 meter	1	Ilt og luft slange 5m	Dameca A/S	
	EXT	Power cord	1	17152023	FLAIRMO DK	
	BOX	Cabinet 400x400x200mmm	1	MAS0404021-R5	Carlo Gavazzi	
	BOX	Handlebars Ø6x140mm	2	RG-1N.140.84	Scandiloc A/S	
	ASM	DIN rail	0,4	2288751	Sanistål A/S	
	ASM	Hose PVC, clear. Ø24/ø19	0,8	JA3-1924	Roykon	
	ASM	M25x1,5 nut	1	53119030	Miltronic	
	ASM	Fuse 5x20 5A	1	1716042	Sanistål A/S	
	ASM	Power plug C14 10 A/250 VAC black	1	DD11.0111.1111	ELFA Distrelec A/S	
	ASM	Power cord locking device C13 43 mm	1	KT0006	ELFA Distrelec A/S	

ASM	Cables for pressure sensors	3	EVC471	IFM electronic a/s
ASM	Fuse holder 1-pole C14 plug	1	143-23-370	ELFA Distrelec A/S
ASM	Terminal block 4L Gray 1,5mm2	4	2001-1401	WAGO Denmark ApS
ASM	Terminal block 4L PE Green/Yellow 1,5mm2	1	2001-1407	WAGO Denmark ApS
ASM	Terminal block end plate 4L Orange 1,5mm2	1	2002-1492	WAGO Denmark ApS
ASM	Terminal block DIN stop Gray	1	249-116	WAGO Denmark ApS
ASM	Jumper (busbar) 2-ways	2	2001-402	WAGO Denmark ApS
ASM	Power relay 24V	2	857-304	WAGO Denmark ApS
ASM	Schott plug connection 1/4'' x M20	2	51392820	FLAIRMO DK
ASM	Conical connector Ø22/ø19 Medical POM	1	51422219_r00	FLAIRMO DK
ASM	Conical connector ø22/G1/2" Medical SS316	2	51422248_r00	FLAIRMO DK
ASM	T-piece 1/2'' m/n/n BSPP/BSPT/BSPT	1	51534848	FLAIRMO DK
ASM	Hose nipple ø19 1"	1	17131024	FLAIRMO DK
ASM	G1/2'' 6mm nut	2	17131034	FLAIRMO DK