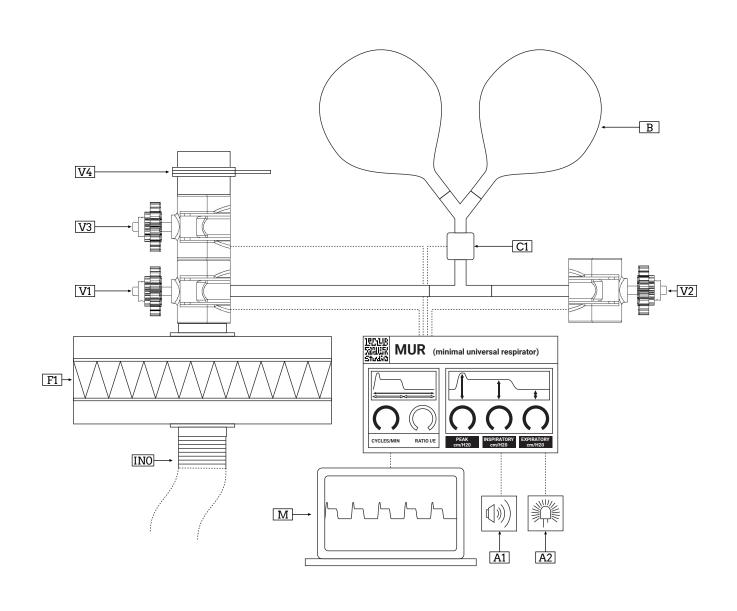
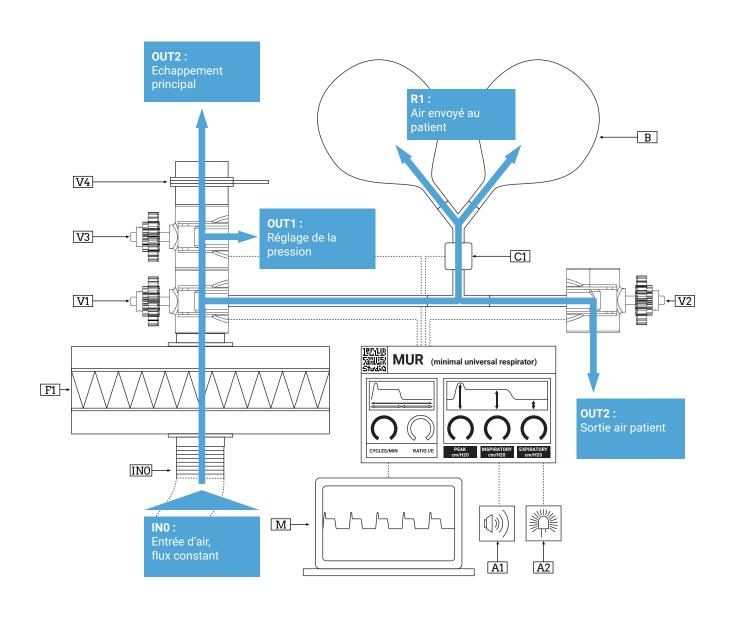


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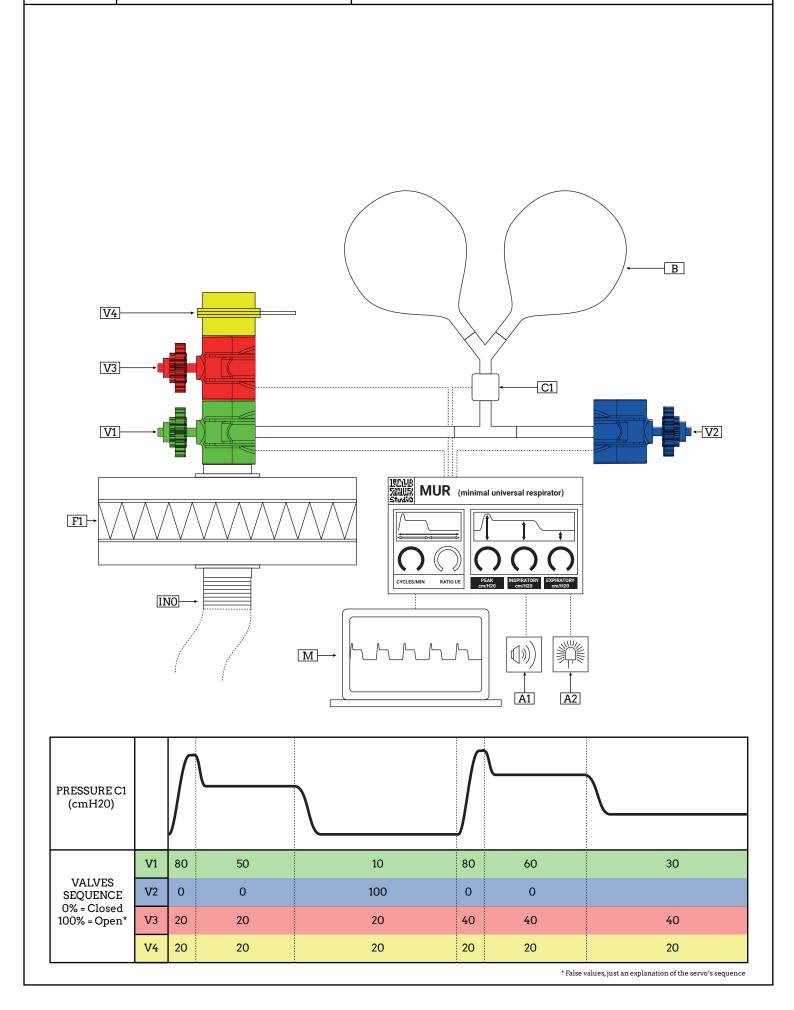


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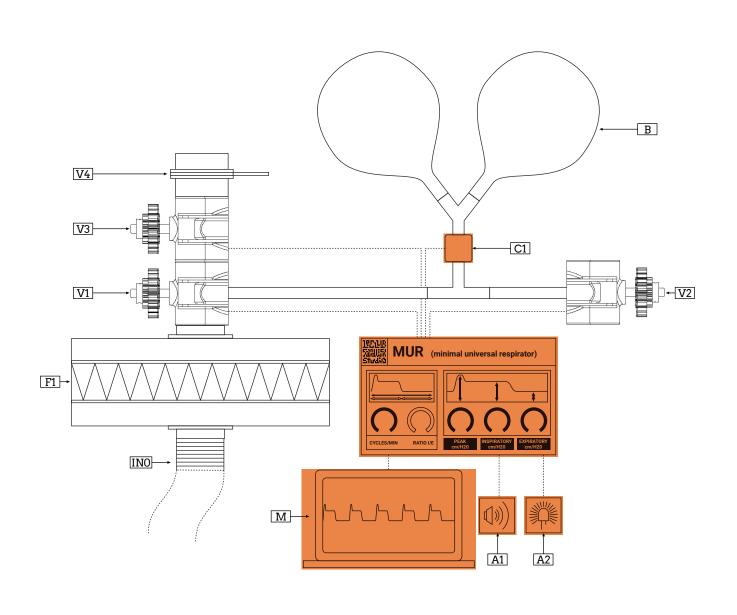


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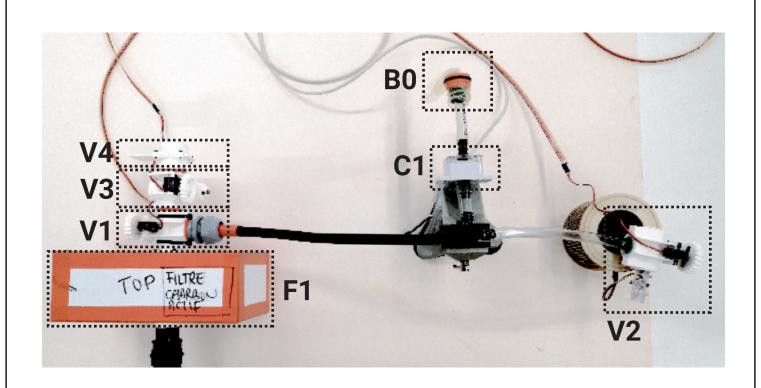


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Schéma de fonctionnement

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V0 MVP (Minimum Viable Product)



OUT1:Sortie calibrage

OUT1:Sortie régulation

V4: Echappement, valve mécanique

V3 (servo): Valve régulation de pression (precise)

V1(servo): Valve de mise en pression du circuit de respiration

F1 : Boite à filtre charbon actif

INO: Entrée d'air, flux constant

R1: Air envoyé au patient

B0 : Ballon de test

C1: Capteur de pression

Alarmes et Securité

Déclenchement d'alarme et mise en securité du systeme (voir page 3)

Monitoring: Retour direct sous forme de courbe de l'evolution de la pression pendant les cycles.

V2 (servo): Valve controle cycle

Controle Electronique Liste des paramêtres d

Liste des paramêtres de réglages par potenciometres (deja présents dans la machine)



I/E: Rapport Inspiration/Expiration de 1/1 à 1/4

PEAK PRESSURE
Pression de crete (cm/H20

INSPIRATORY PRESSURE
Plateau Pressure (cm/H20)

EXPIRATORY PRESSURE PEEP (cm/H20)

OUT2 : Sortie réspiration

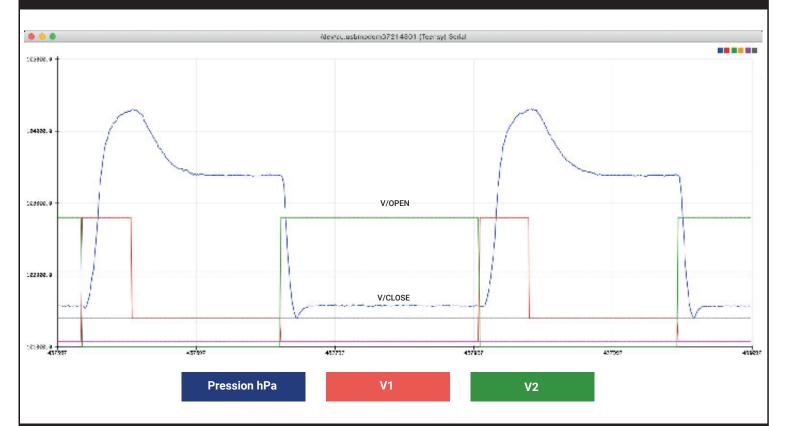


Rapport de test Pression (C1)

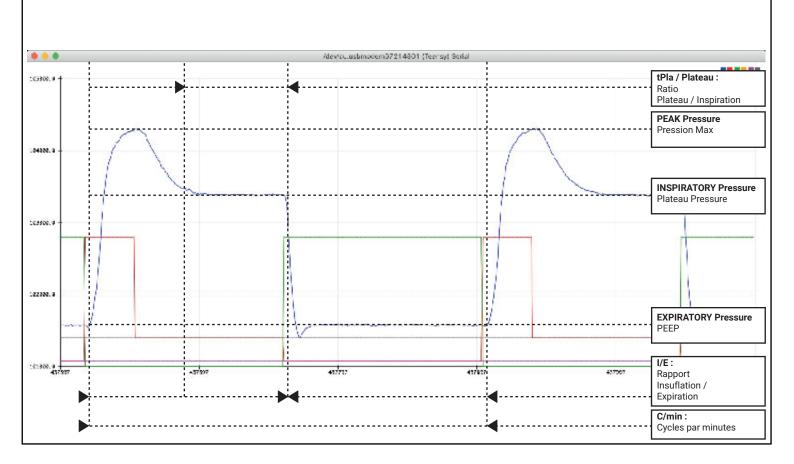
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Cycles de respiration et courbes de pression

A. PRESSION (C1) ET CYCLES OUVERTURES VALVES



B. VARIABLES ET CONTROLE





INTERFACE PHYSIQUE

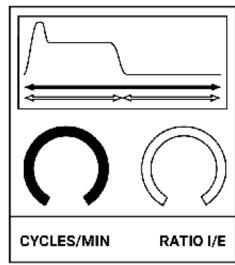
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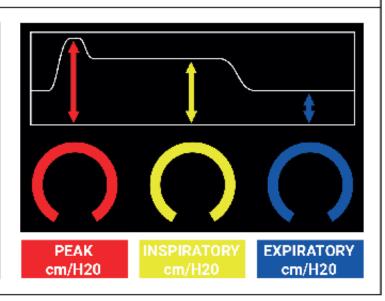
Controles, alarmes et securité

C. HUMAN MACHINE INTERFACE (CONTROL PANEL)



MUR (minimal universal respirator)





D. CONTROLS, ALARMS AND SAFETY

EXHAUST

AND NEXT CYCLE

CONTROL -	CYCLES / MIN
NAME -	C/MIN
UNIT-	X / MIN
RANGE -	10 C/min to 30 C/min
ALARM –	
SAFETY-	

RATIO I/E	
I/E	
ms / ms	
1/1 to 1/4	
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PEAK PRESSURE	INSPIRATORY PRESSURE	EXPIRATORY PRESSURE
PP	IP	PEEP
cm/H20	cm/H20	cm/H20
0 / 60	0 / 40	0 / 30
IF PP > 50	IF IP > 30	IF PEEP > 20
SOUND AND VISUAL ALARM 1	SOUND AND VISUAL ALARM 1	SOUND AND VISUAL ALARM 1
IF ΛΡΡ > 20	IF AIP > 20	IF ΔPEEP > 20
SOUND AND VISUAL ALARM 2	SOUND AND VISUAL ALARM 2	SOUND AND VISUAL ALARM 2
IF PP > 60	IF IP > 60	IF IP > 60
MECHANICAL	MECHANICAL	MECHANICAL

EXHAUST

AND NEXT CYCLE

EXHAUST

AND NEXT CYCLE



INTERFACE PHYSIQUE

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Proposition de conception simple



