

HealthOS Ventilator Assembly instructions

V 0.5

Motor Speed Reduction Gear Motor Electric
12V DC 60RPM Powerful Torque 25mm

<https://www.amazon.com/Motor-Reduction-Electric-Powerful-Torque/dp/B07ZCP2C4T/>

2x

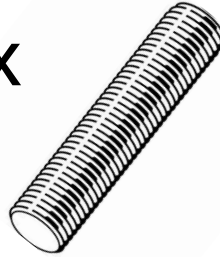


Parts Needed

Threaded Rod, B7 Alloy Steel, 3/8-24x3 ft

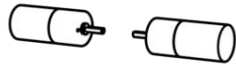
<https://www.amazon.com/Threaded-Rod-Alloy-Steel-8-24x3/dp/B0763K4GQJ/>

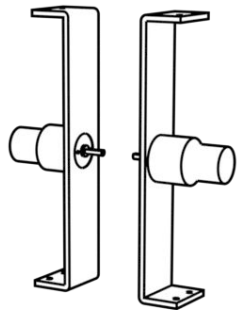
4x



Motors

12V electric motors with a 60RPM
gear reduction

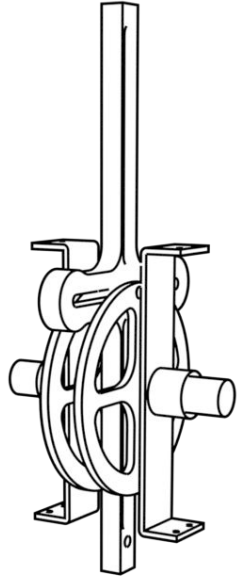




Brackets

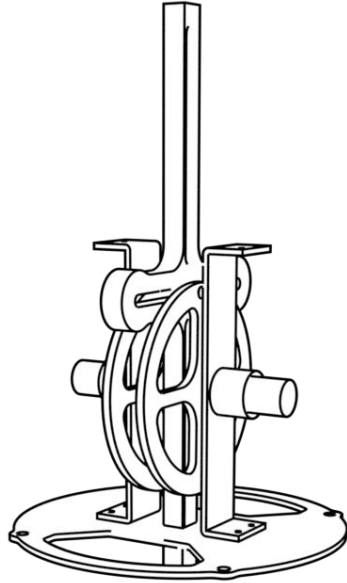
Push the motors into the mounting tubes.

Add glue if necessary to hold in place



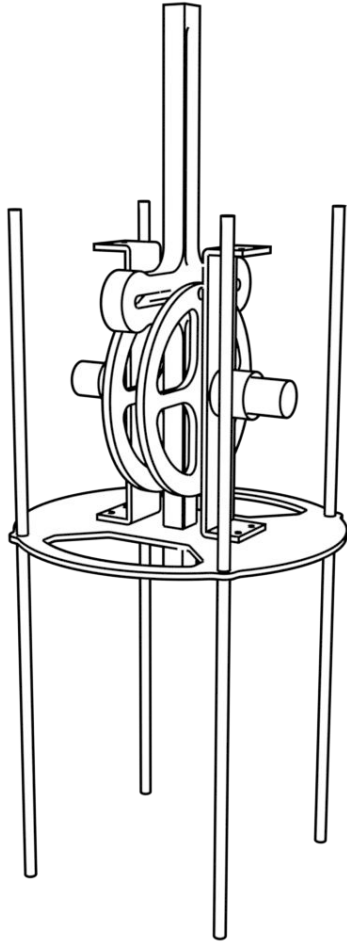
Disc and Plunger

Connect the discs to each motor mount and use M8 threaded bar to connect through plunger slot.



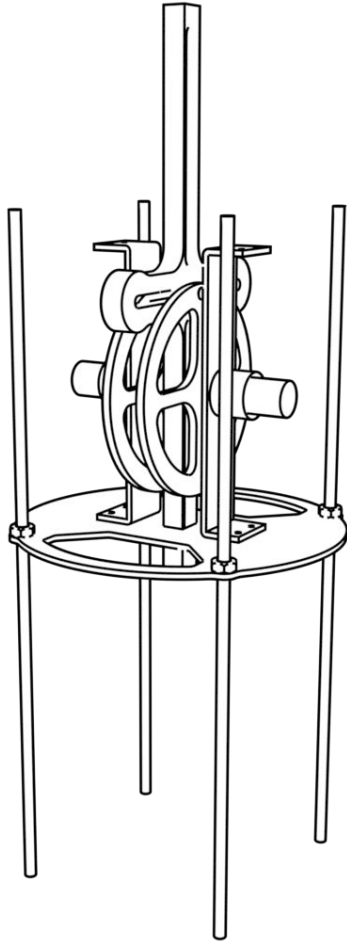
Middle Plate

Screw the brackets onto the middle plate



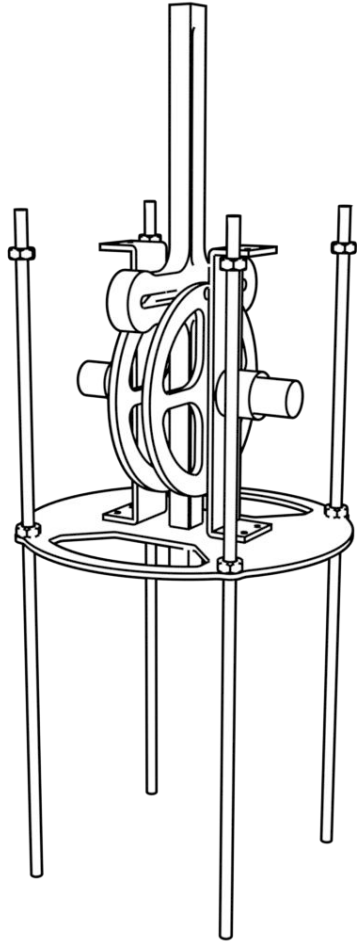
Threaded Rods

Insert threaded rods through plate



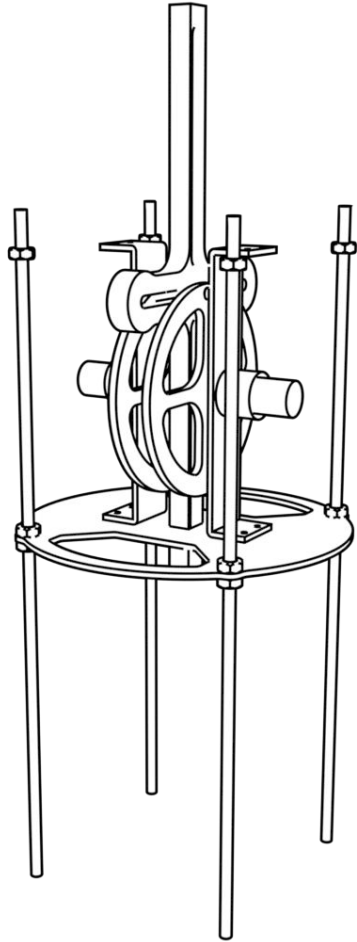
Nuts

Add nuts to threaded bars



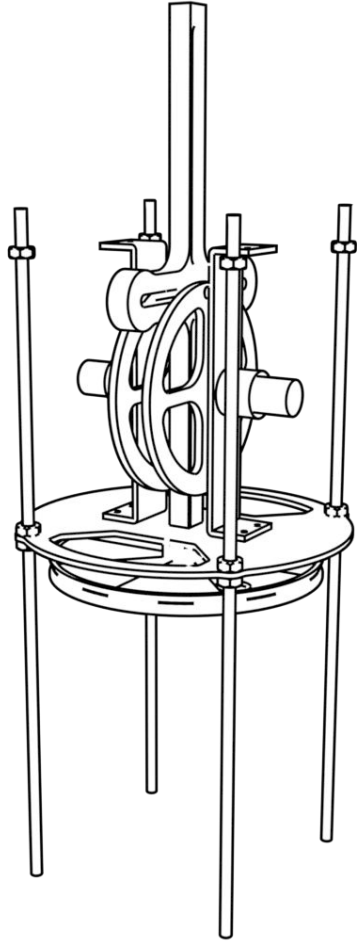
Nuts

Add four more nuts to support top plate



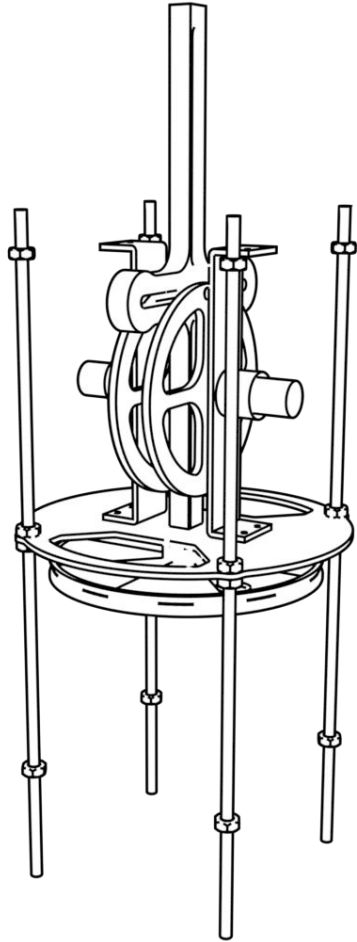
Nuts

Add four more nuts to support middle plate



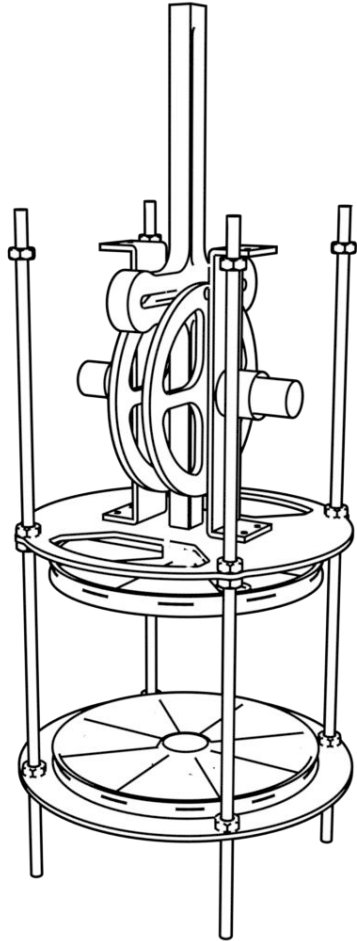
Top Bellow Plate

Connect the top bellow plate to the plunger



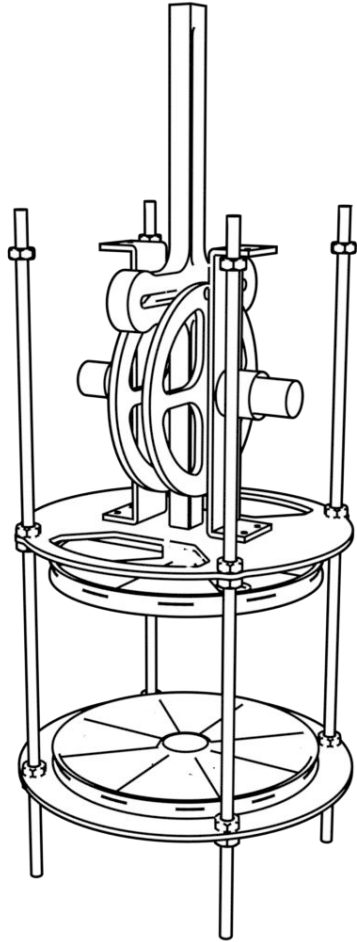
Nuts

Add four more nuts to the threaded bars



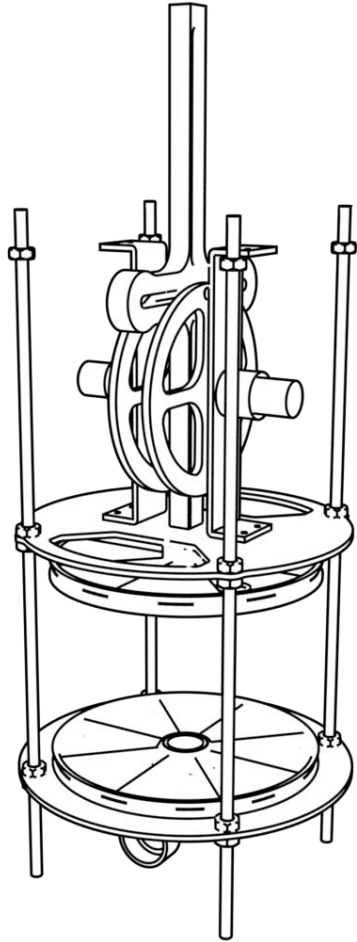
Lower Bellow Plate

Add the lower bellow plate



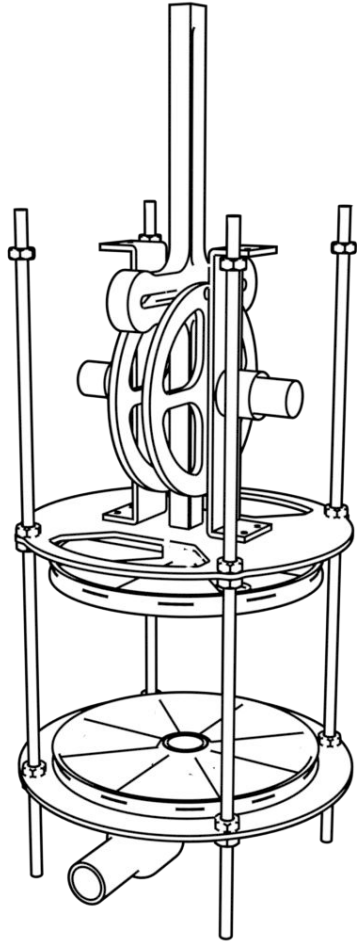
Nuts

Add four more nuts to support the
bellow plate



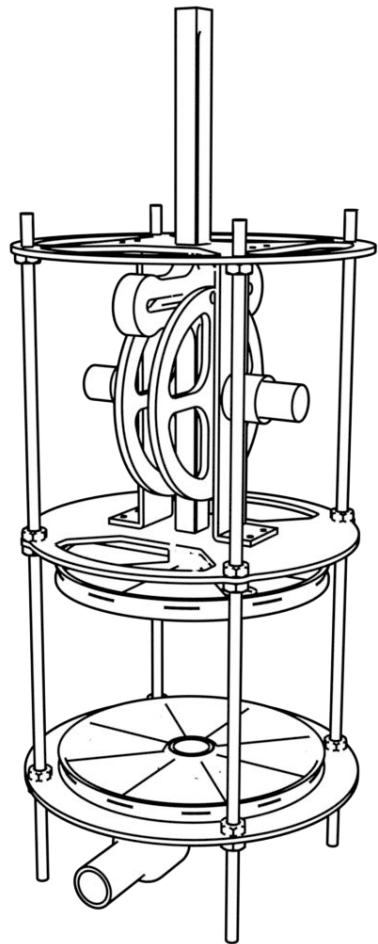
Exit Pipe

Insert the exit pipe under the lower plate



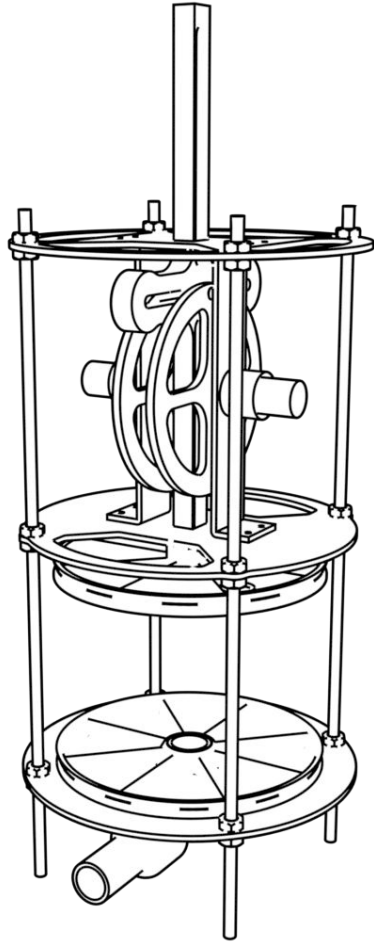
Valve

Connect valve to exit pipe



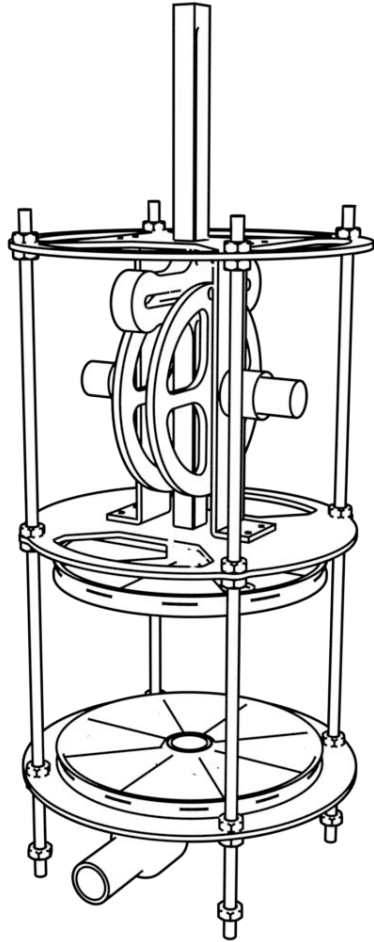
Top Plate

Add top plate



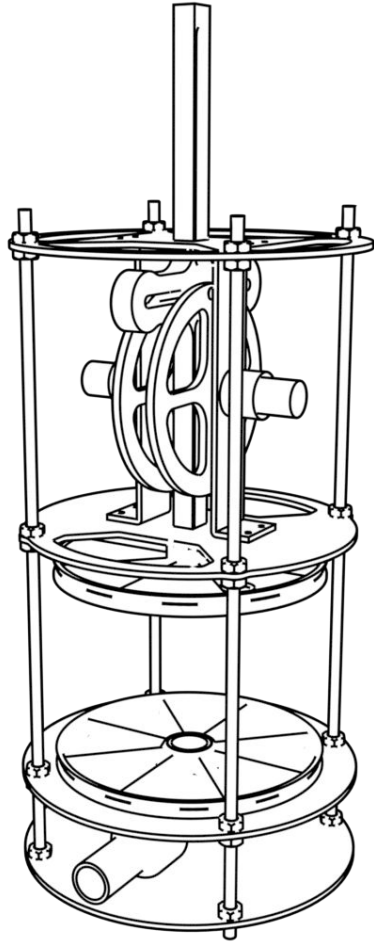
Nuts

Add nuts to secure top plate



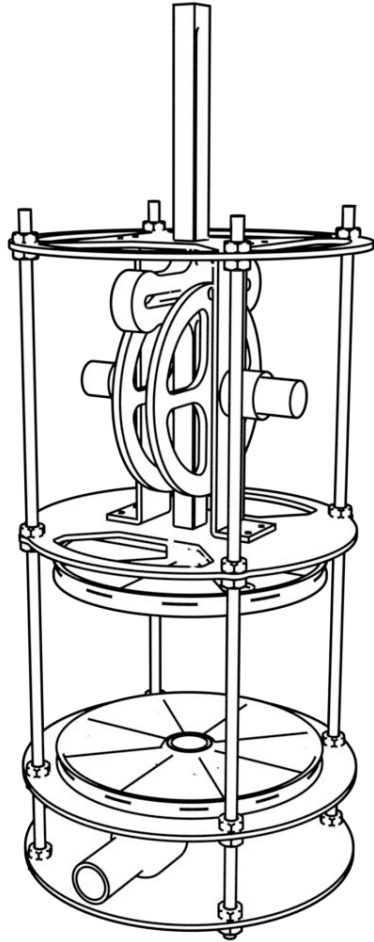
Nuts

Add four more nuts to threaded bar



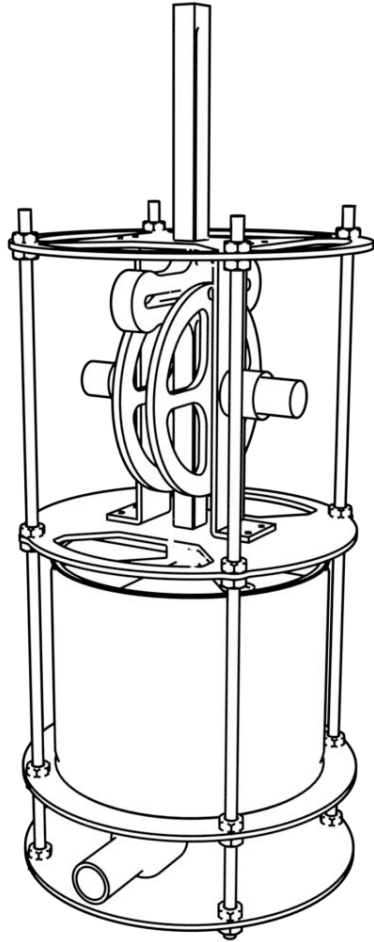
Bottom Plate

Add bottom plate



Nuts

Secure bottom plate with four more nuts



Bellow Membrane

Secure bellow membrane with zip ties