

# 澳門浸信中學

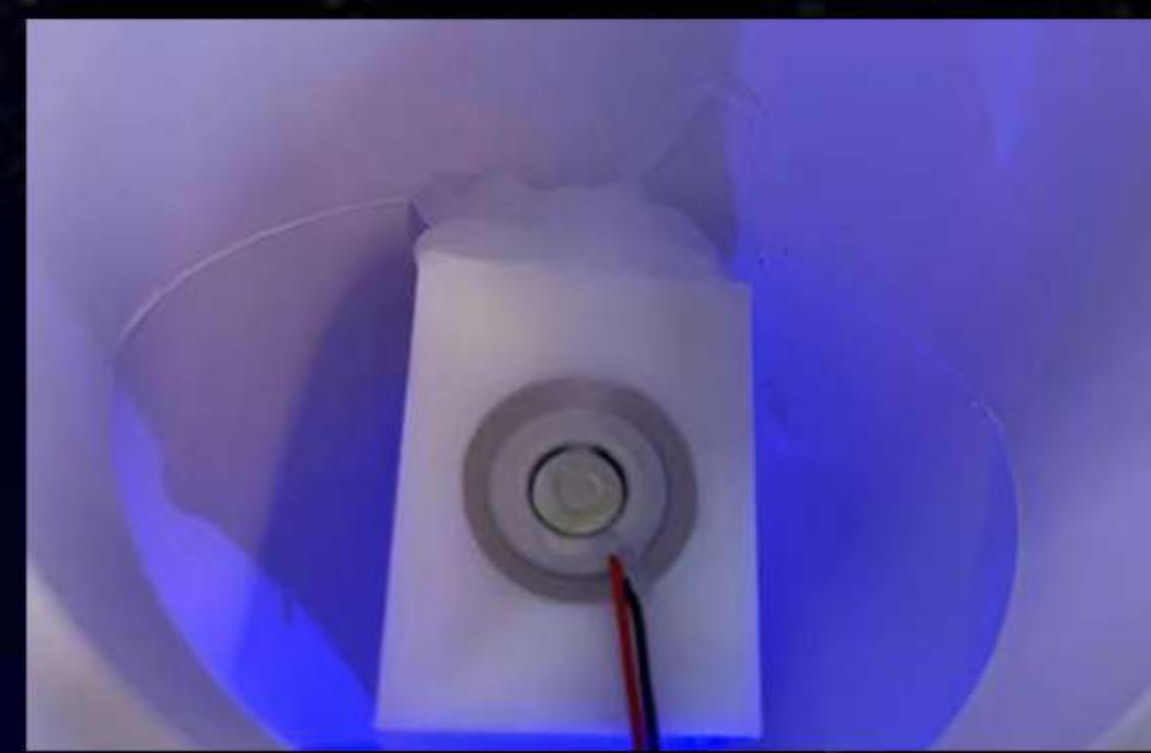
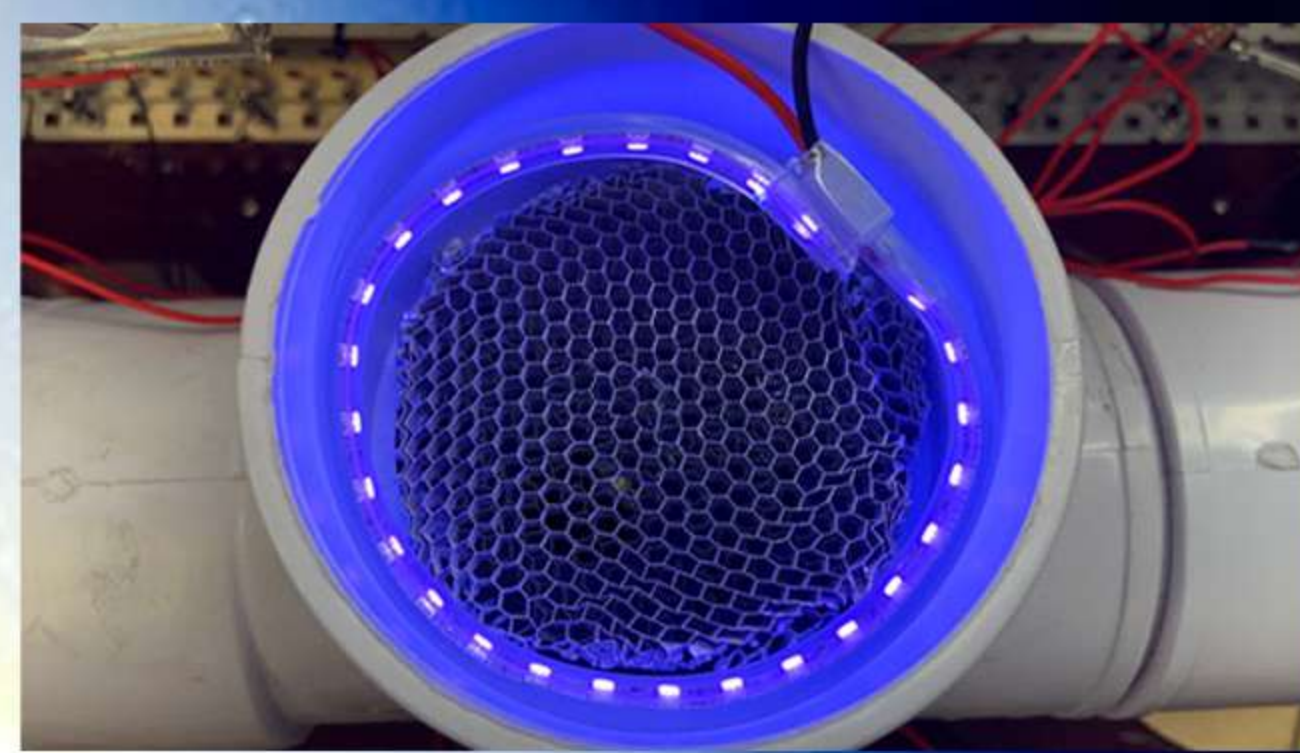
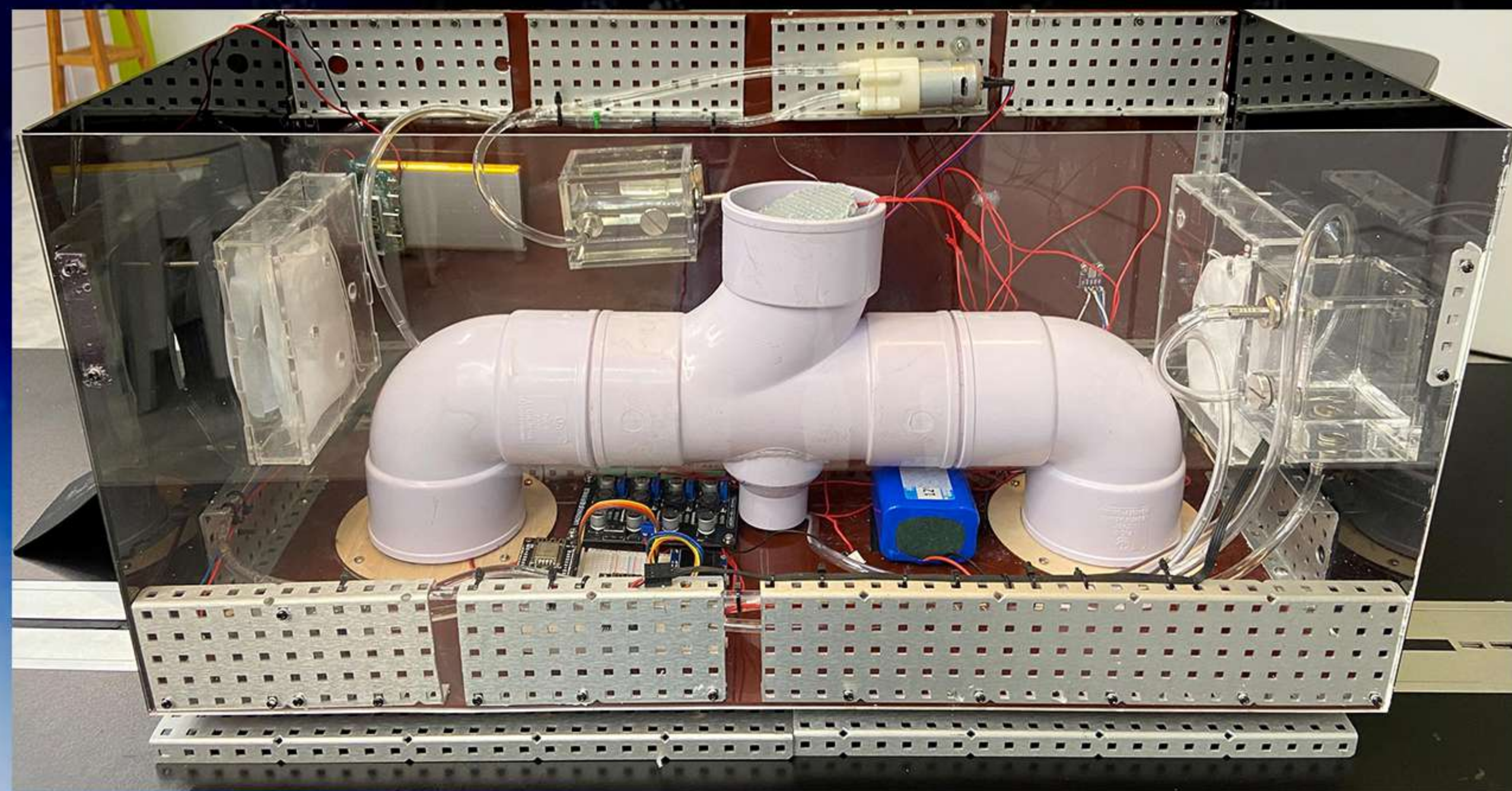
MACAU BAPTIST COLLEGE



## Tunnel Air Purification System

### Introduction:

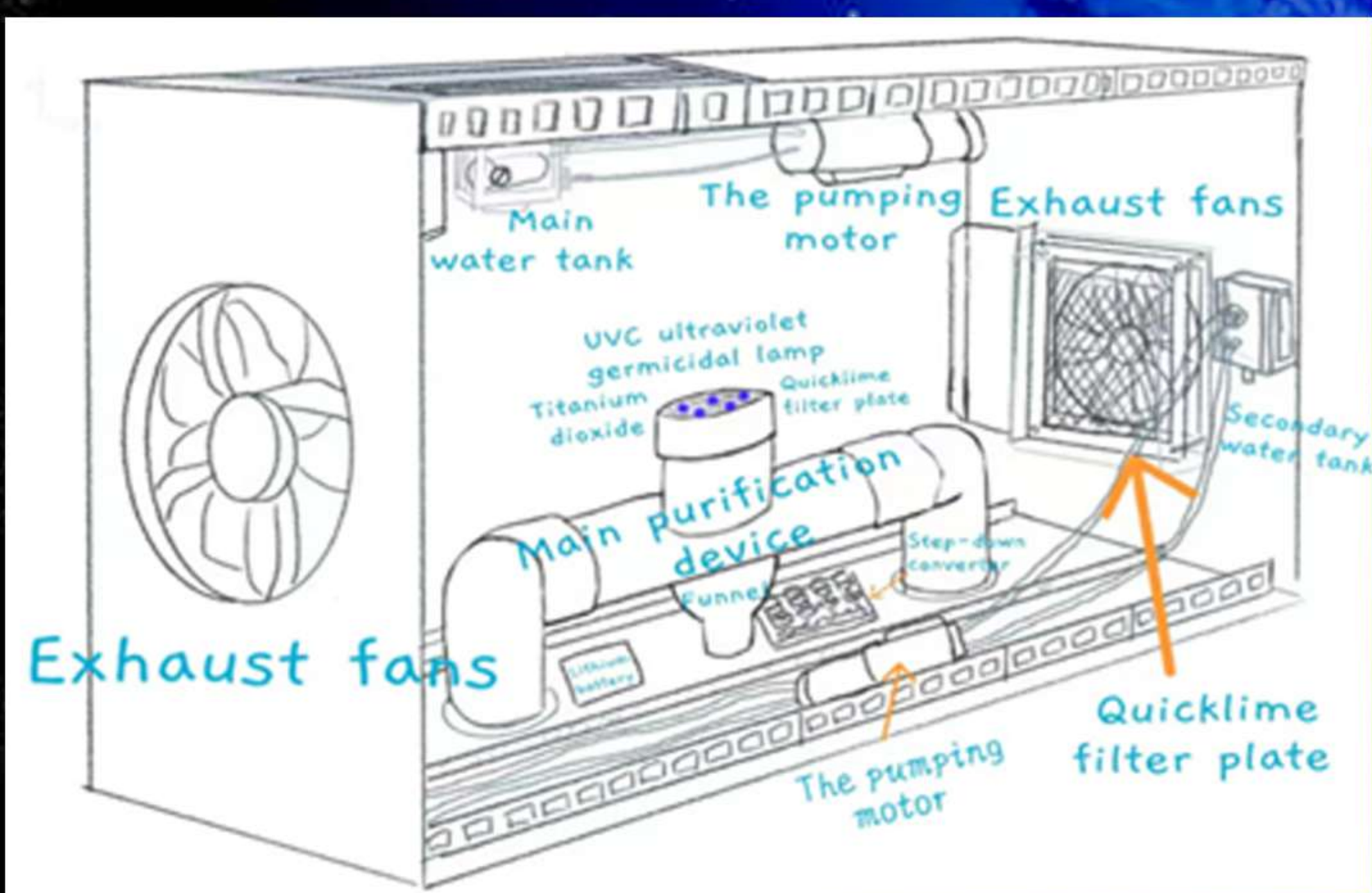
This device can be applied in semi-enclosed tunnels to effectively decompose the harmful gases emitted by cars in the tunnels and reduce carbon emissions. After entering the purification device, the suspended particles will be washed by the water atomization device, and then the photocatalyst reaction will be carried out, and quicklime is used to absorb carbon dioxide thus solving the carbon emission problem. Its purpose is to reduce the risk of people's health problems and air pollution, take care of the environment.



### Innovation:

Photocatalyst decomposes automobile exhaust: it will decompose harmful gases into water and carbon dioxide that do not pollute the atmosphere. Combination reaction of quicklime and carbon dioxide:

A quicklime filter plate is added between titanium dioxide, added to each of the two air vents too, which can greatly reduce the concentration of carbon dioxide so as to achieve the effect of secondary carbon reduction. Purifying the air while reducing carbon emissions and achieving carbon neutralization.



Video QR code