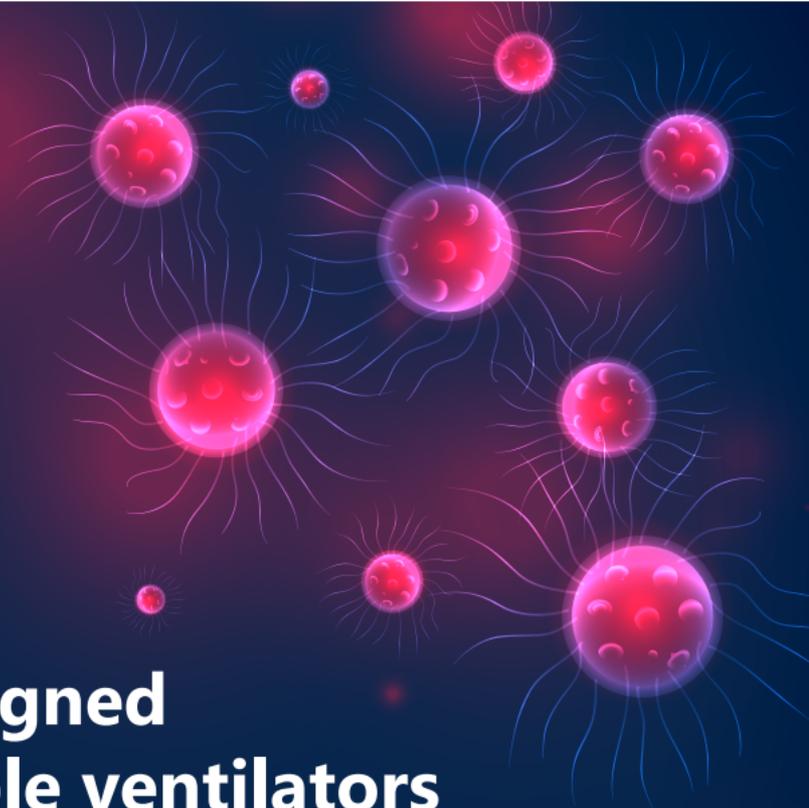


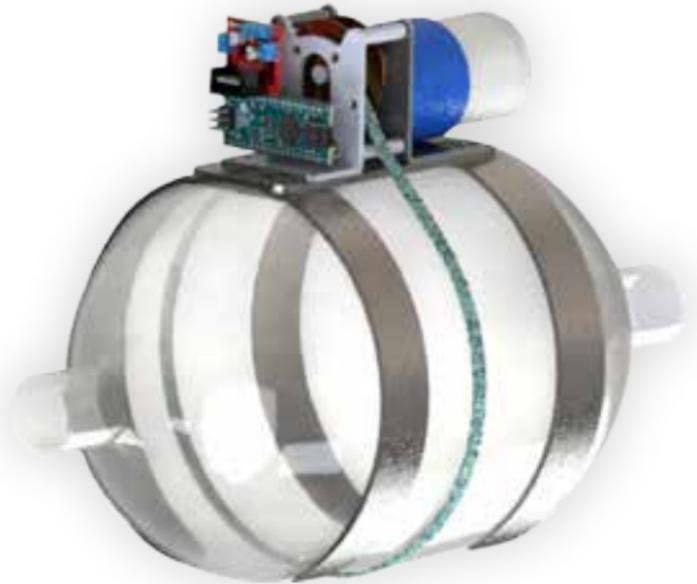


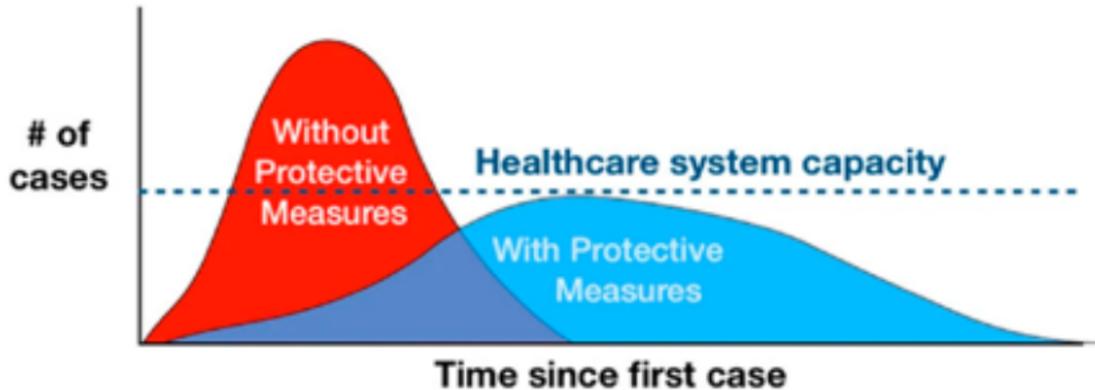
**PBOPlus has designed
low-cost , portable ventilators
to help ease the load on Hospitals.**



PBOPlus engineers and designers have been working on a prototype for a low-cost and easy to produce portable ventilator.

These last few weeks have challenged our way of life in a way that is unprecedented. While the world takes extreme measures of nationwide lockdowns were mandated as necessary, not to prevent individual infection so much as to help "Flatten the Curve". The goal being to ensure that medical services are not overwhelmed by the number of people required assistance so as to collapse the system.





Adapted from CDC / The Economist

We wanted to do our part to help increase ventilator availability and capacity.

PBOPlus and PBORobotics develop process solutions and automation to back them up. We work to create affordable, effective solutions that work. Our engineers collaborated from across the country from home to come up with something that works for everyone.

This is a time for the those who can, to step up. This will provide one way for us to create a decentralised manufacturing solution that loosens the bottleneck on the few medical apparatus suppliers we have.

Current Status:

- 1). Only a limited number of ventilator units are available. And concentrated only in hospitals and clinics. This needs to be available to people in their homes too
- 2). Remote locations and sparsely populated areas are at risk.
- 3). Normal people can't work complex equipment
- 4). Cost of currently available units is high.

Current Option:

Other than big ventilator machines, Bag Valve Masks are being used to handle the load in hospitals. They're comparatively cheaper and easier to make. The only problem is that a person has to manually operate it to support a patient.



What do we need : A unit that

- 1). Should be operable by Battery/ Powerbanks/OTG for mobiles
- 2). Should be lightweight and easy to carry
- 3). Be flexible in design so as to be attached to any version of a Bag Valve Mask
- 4). Has the option to increase and decrease settings per the requirement of the



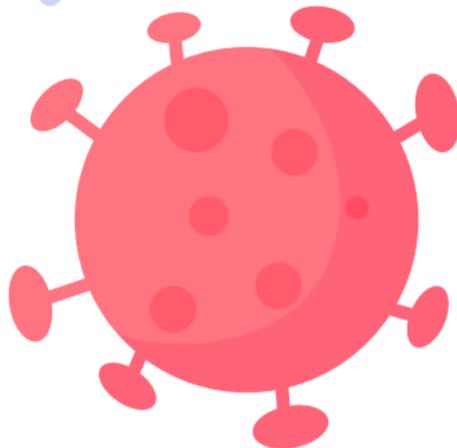
What we need to make this work - is for people who need this - to see this.

We want to help medical professionals around the world to better respond to the current crisis.

We are currently seeking the approvals of regulatory bodies that apply to this product to ensure that the design is as effective and safe as possible.

Pending these approvals - we will have the capacity to build these units in another 30 days after that.

For any details, you can reach out to us at this page and we'll be more than happy to help out.

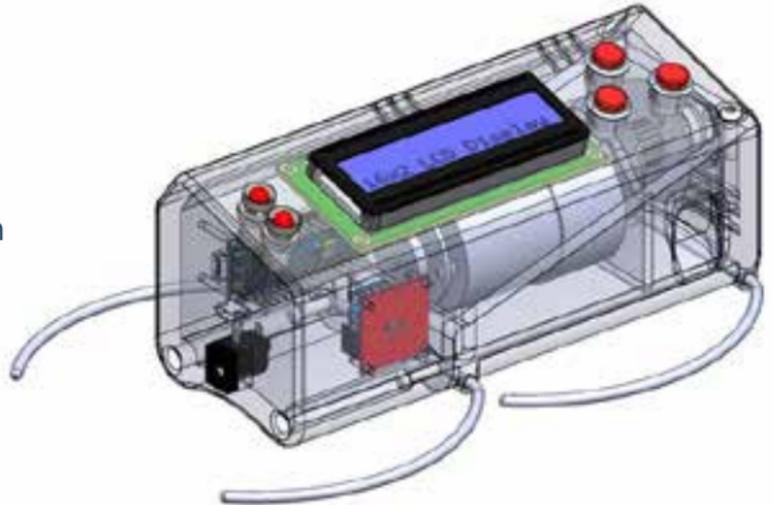


How does it work ?

A ventilator is basically a machine that does the breathing for you. The reason why we need a machine is because it is not possible to provide manual breathing support to someone over an extended period of time.

This unit is a compressing actuator that can be calibrated to pump with a specific time period and with a particular volume of air, depending on the requirement.

This unit is strapped to a standard ventilator bag that is available at any pharmacy or medical supply store.



The bag is then secured to the patient, and the ventilator bag is dilated and compressed to provide air flow.



The cost of the Respirator Control unit itself shouldn't exceed 3000 INR. Which is doable in most circumstances.

Who is this for ?

For people looking to increase ventilator capacity or create any sort of preparedness measure for areas where there may be a lack of long term care for patients afflicted with COVID-19.

Our need is both urgent as well as one that has a very human cost in case we fail to meet it. PBOPlus wants to help, so we are reaching out to everyone.

- 1 Hospitals that need to give people breathing assistance but have no beds to spare
- 2 People living in remote areas
- 3 Middle and low income households who are providing in-home care to victims who have respiratory problems
- 4 Institutions that want to make sure they are stocked to provide assistance should it be necessary
- 5 Government agencies looking for effective low cost solutions



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