

## Technology in Brief

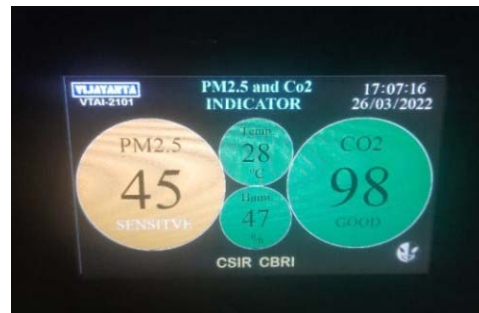
A novel UV-C Type Portable Air Purification and Disinfectant System is developed for indoor applications. It is designed keeping in view the Covid-19 pandemic with enhanced retention time and UV dosage and thus significantly improving the virucidal efficiency. The device is designed in close collaboration with CSIR-CSIO and CSIR-IMTECH. The virucidal efficiency of the system is more than 99.9%. It is very effective in preventing indoor pollution for places affected with very poor AQI rating.

## Salient Features/Advantages

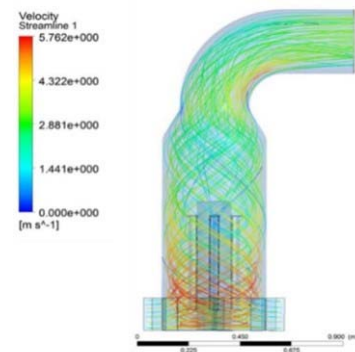
- A novel baffles design to prevent UV leakage.
- A novel fan mounting system to deliver unidirectional or multi-directional air.
- Easy to install, operate and maintain, and with improved safety and control.
- Single system for prevention of viral disease transmission and prevention of indoor air Pollution.
- Large coverage area due to novel design and high flow capacity.
- Applicable for all types of buildings in places having poor AQI rating.



**Air Disinfection System**



**Monitoring Indoor Pollutants**



**CFD Simulation of Air Flow**

End Product(s)	Air Disinfection and Purification System
License/Commercialization	M/s Rapid Controls Pvt. Ltd., New Delhi
TRL	7
Setup - Equipment required	Assembling Work and Sheet Metal Work (Raw Materials: 254nm UVC Lights, Axial Fan, Electrical and Electronic Components, HEPA Filter Media, etc)
Employment generation	Targeted towards MSME Sector