



VAYUONE

AMBIENT AIR PURIFIER



IITM **PRAVARTAK**®
CATALYSING INNOVATION

**Patented In India
Made In India
For Ambient AIR**



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LIVVAir's VayuOne AMBIENT AIR PURIFIER REDUCES PM₁₀ – PM_{2.5} – VOCs – NOx – SOx – CO₂

PERFECT SOLUTION TO DROPPING AQI BY 50%

DROPS: PM₁₀ – PM_{2.5} – VOCs – NOx – SOx – CO₂

- Cover upto 2000 Sq. Ft. Open Space
- No HEPA Filters
- Plug n Play
- 24x7 – 365 days
- Real time – AQI Monitor – IOT enabled
- Life 5 Years
- Low Noise Level < 55 dB
- Low Maintenance (Requires Period Cleaning)



› PRIMARY FUNCTION

The VayuOne is an advanced, integrated ambient air pollution management system designed to effectively tackle the growing threat of air contamination in urban and industrial environments. At its core, the device features a highly efficient cyclone dust collector, which utilises centrifugal force to remove larger particulate matter (PM) from the ambient air. This is followed by a secondary filtration process, in which air passes through an activated carbon filter positioned at the outlet. This dual-stage mechanism not only captures fine PM_{2.5} and PM₁₀ particles but also significantly reduces the presence of harmful gaseous pollutants such as carbon monoxide (CO), nitrogen oxides (NOx), sulphur oxides (SOx), and volatile organic compounds (VOCs).

LIVVAir's innovative technology is the result of continuous research, development, and refinement, driven by the urgent need to combat the growing impact of greenhouse gases (GHGs) and the deterioration of both indoor and outdoor air quality. In response to these challenges, LIVVAir remains committed to advancing its air purification solutions to meet evolving environmental demands. The VayuOne system is at the forefront of this innovation, designed to purify ambient air efficiently and reliably.

› PERFECT FOR USE IN

- › Gardens | Parks | Lawns
- › Road, Highway – Toll Plaza
- › Bus Stops
- › Airports
- › Railway Stations

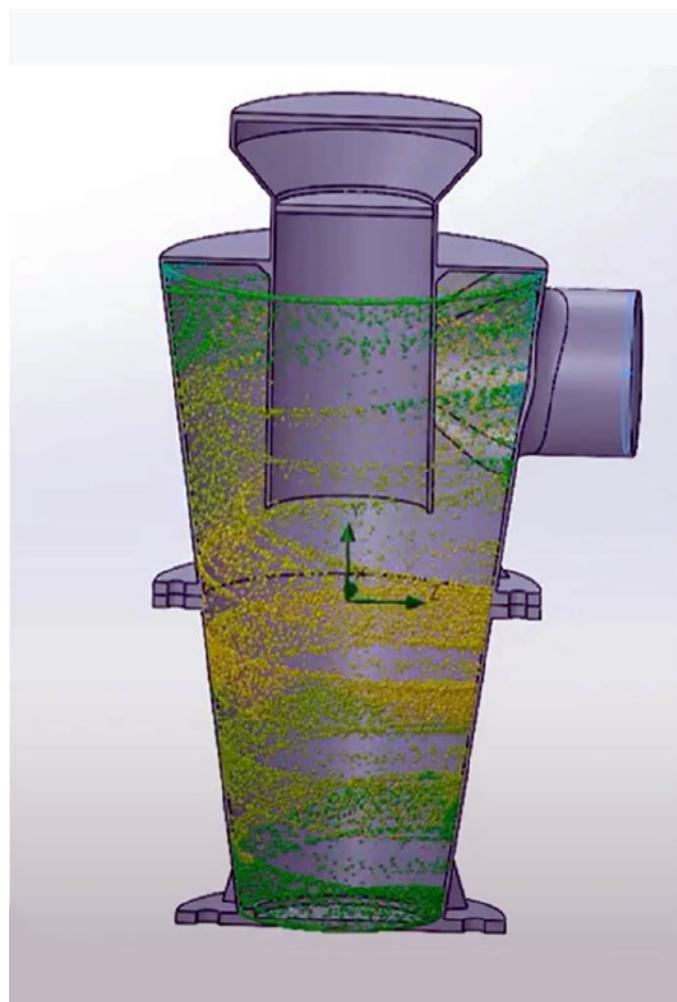
HOW DOES VAYUONE WORK

- › Rapidly reduces all pollutants within a 2000 sq.ft. area
- › Separates contaminates and pollutants from the air
- › Stores them in its built-in bin
- › Release clean air - reducing the pollutants in the ambient air
- › Real time - AQI monitoring
- › IOT enabled
- › Low energy consumption





REDUCES POLLUTANTS 24/7



› SERVICING MADE EASY

- Open the Back panel & Switch off the power.
- Use a Vacuum to clean the residual dust around the Cyclone.
- Open the waste collection bin and vacuum the collected dust.
- Close the waste collection bin.
- Turn on the power and close the unit.
- It required periodical cleaning

› HOW DOES THE VAYUONE SYSTEM WORKS

The VayuOne system is an advanced, integrated ambient air pollution management system designed to effectively tackle the growing threat of air contamination in urban environments. Its innovative technology and sustainable design make it the ideal solution for air quality problems. It is a Net Zero Ambient Air Purification System that has the following specifications.

Dual-Stage Filtration Technology. The core of the VayuOne system Patented technology is its dual-stage filtration process that ensures the comprehensive removal of a wide range of pollutants, resulting in significantly cleaner and healthier air. It includes the following:-

- (a) **Cyclone Dust Collection:** This initial stage uses centrifugal force to remove larger particulate matter (PM10) from the ambient air. NO HEPA FILTERS
- (b). **Activated Carbon Filtration:** The air then passes through a specialised activated carbon filter that captures fine particulate matter (PM2.5) and absorbs harmful gaseous pollutants, including Volatile Organic Compounds (VOCs), Nitrogen Oxides (NOx), Sulphur Oxides (SOx), and Carbon Monoxide (CO).

REDUCTION IN AQI GUARANTEED

*Conditions Apply

TECHNICAL DETAILS

VayuOne Unit Dimensions

6 ft (h) x 2 ft (w) x 2 ft (d)

Power Supply

220V, 50/60Hz |
0.5 kVA

Set Up

Fixed on the ground. Hard bolted.

Construction

Anodised aluminium, solid extrusion

Weight

85 kgs

Operation

Continuous operation



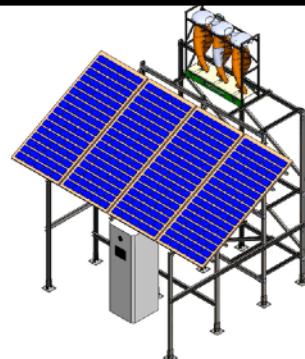
AMBIENT AIR SOLUTION

Criteria	Vayu-One	NOTES
Filteration method	Aero-Dynamics	Patented Made in India
IOT enabled	Yes	PM10, PM 2.5 , Dust , VOCs, No2, SO, CO Temp, Humidity
Remote Monitoring	Yes	Centralised dashboard to monitor all units
Life span	7 years +	AMC after 1st Year
Env. Impact	No adv impact	Net Zero Product
Filter replacement	not required	Has a activated charcoal Filter
Gases handled	PM, NOx, VOC, SO, Co	PM10, PM 2.5 , Dust , VOCs, No2, SO, CO
Noise level (db)	< 55 Db	Normal Human Voice is at 60-70 db
Air Quantity (CFM)	1150 -1200 CFM	Cleans 1200 cubic feet of air every Minute
Power Consumption	upto 220 kw	Hybrid off Grid - Net Zero Energy
Operating Temp.	5-50 degree	5-50 degree
Dimensions	6 x 2 x 2 ft.	Can be scaled up if required
Power Utilisation	0.5 kVA	Low energy consumption
Power Supply — Dual	HYBRID- Solar & Wind or direct AC output	Comes with its integrated Wind-Solar Hybrid Plant
Effective Range	10 ft.+ Height - Covering 2000 sq ft Carpet area	

› SUSTAINABLE POWER SOURCE | NET ZERO

Each VayuOne unit is powered by an independent, off-grid solar-wind hybrid system. This ensures continuous, 24x7 operation without relying on the city's power grid, making it a truly sustainable and resilient solution.

The use of renewable energy also contributes to the reduction of greenhouse gas emissions, further enhancing the project's environmental benefits.



For more information:

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