

# airhavn pro™

by airlabs

## Helping protect against airborne virus transmission, and harmful air pollution

AirHavn Pro provides an additional layer of protection to staff, customers, patients and pupils by flooding rooms and corridors with large amounts of clean air, reducing exposure to airborne viruses and harmful air pollutants.

airlabs®  
breathe easy

## Clean Air Matters

Airborne viruses are known to remain suspended and alive in the air for hours, allowing transmission even after the departure of the source.

Air filtration provides an extra layer of protection in shared spaces such as offices, retail and leisure facilities, restaurants and healthcare environments by removing airborne viruses and contaminated particulate matter that are known pathways of virus transmission. While the ability of a filter to remove airborne particles is critical, so too is the amount of clean air that the device can produce. The Clean Air Delivery Rate (CADR) combines both the filtration efficiency and the air flow rate. To be effective, an air filtration system needs to be able to produce enough clean air to outperform the sources of contamination.

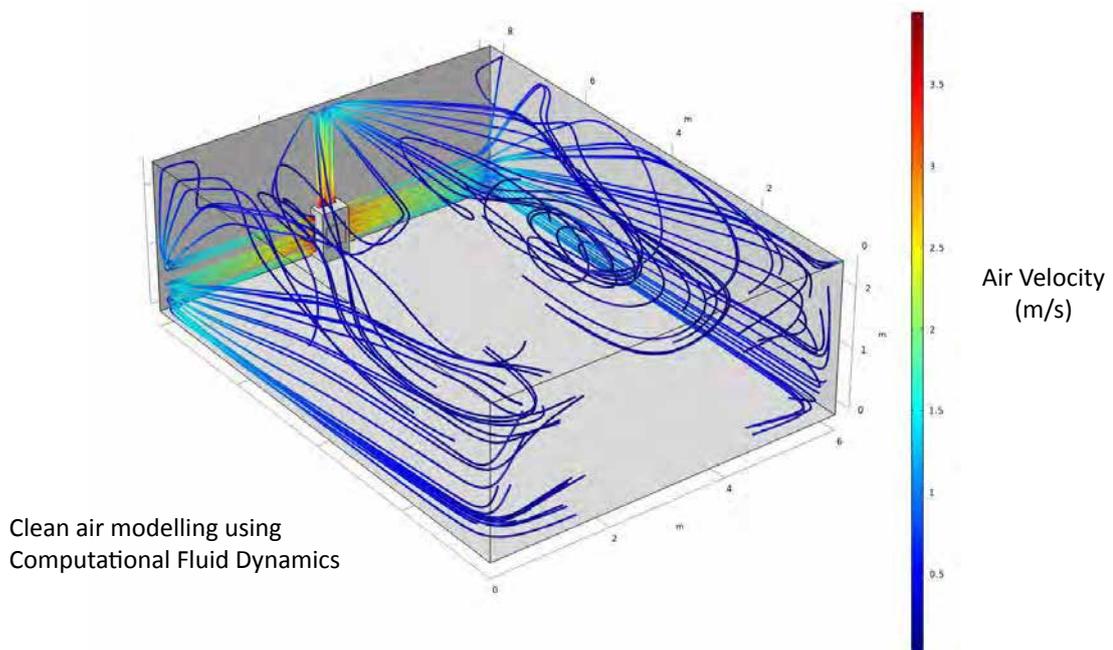
The AirHavn Pro double filtration technology protects against harmful particle and gas pollutants and airborne pathogens.

**AirHavn Pro exchanges the air multiple times an hour, reducing the risk of airborne virus transmission in a matter of minutes.**

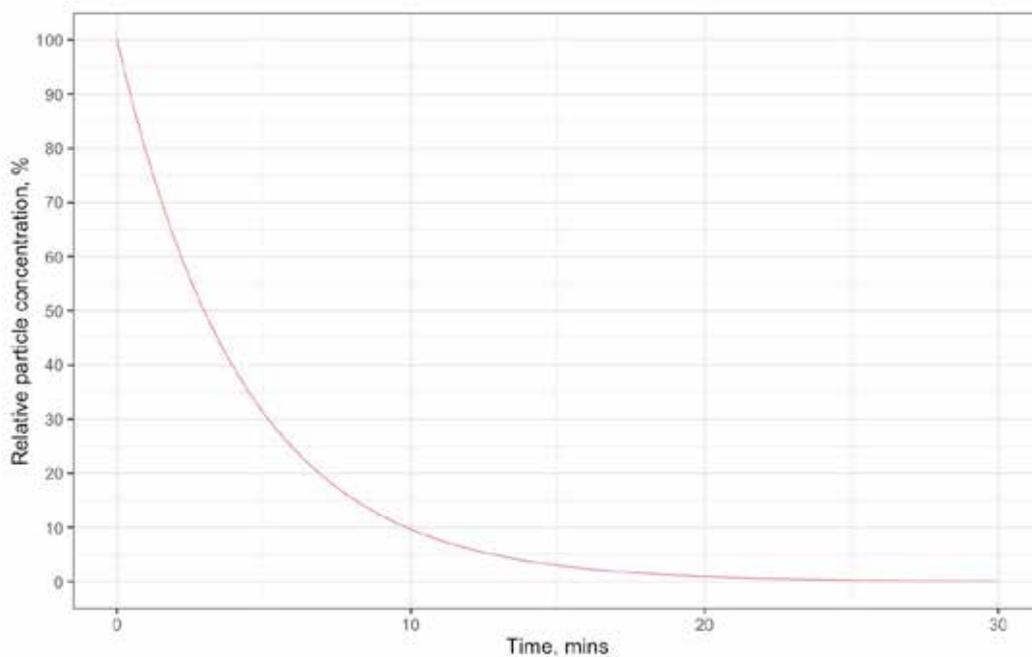


## 8 Air Exchanges per Hour \*

The key to maintaining safe and healthy air is the number of air exchanges per hour. The AirHavn Pro achieves this thanks to its high Clean Air Delivery Rate (CADR) and can change the air within a 30m<sup>2</sup> room every 8 minutes, removing even the smallest airborne particles, viruses and toxic gases.



Rapid removal of potentially contaminated particles in a 30m<sup>2</sup> room.



## Key Features

### High Air Flow Capacity

Delivers a high CADR of 576 m<sup>3</sup>/hr, enough to provide 8 air changes per hour in a 30m<sup>2</sup> room.

### Electrostatic Precipitator (ESP) Filter

The electrostatic cell filters >95% of particles less than 2.5µm while maintaining high airflow rates. The filter is maintained through simple annual cleaning.

### Engineered Nano-Carbon (ENC) Filter

The unique ENC filter removes toxic gas pollutants such as ozone, NO<sub>2</sub> and VOCs that can be present within buildings and adversely affect respiratory health.

### Low Total Cost of Ownership

The unique filter system of the AirHavn Pro results in significantly lower maintenance costs over the lifetime of the unit.

### Compact Design

The AirHavn Pro occupies only 0.14m<sup>2</sup> of floor space, yet delivers 576 m<sup>3</sup>/hr of clean air. Mounted on wheels, the compact unit can easily be moved to where it is needed most.

### Low Power / Low Noise

Consumes only 78W of power, on the highest fan speed, at a quiet 55dB.

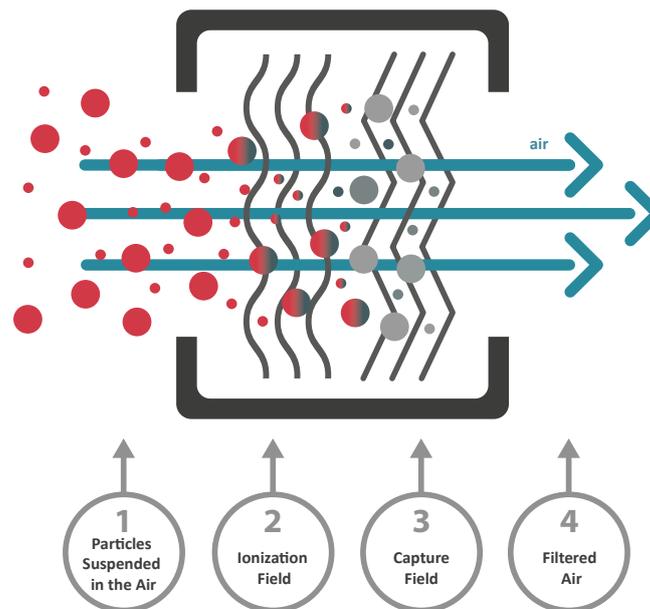
| Performance | Clean Air Delivery Rate for PM <sub>2.5</sub> | Air Exchanges | Removal Efficiency |                 |                | Noise |
|-------------|---|---------------|--------------------|-----------------|----------------|-------|
|             | m <sup>3</sup> /hr                            | #/hr*         | PM <sub>2.5</sub>  | NO <sub>2</sub> | O <sub>3</sub> | dB    |
| Speed 1     | 278   | <b>3.9</b>    | >95%               | 65%             | 70%            | 29    |
| Speed 2     | 463   | <b>6.4</b>    | >95%               | 50%             | 65%            | 39    |
| Speed 3     | 576   | <b>8</b>      | >95%               | 45%             | 60%            | 55    |

\* Based on a room size of 30m<sup>2</sup> (with a typical ceiling height of 2.4m)



## Particle Removal

The Electrostatic Precipitator (ESP) is highly effective at removing fine and ultrafine particles at high air flow rates.



## Gas Removal

Gases are removed by AirLabs' proprietary ENC nano-carbon filtration technology. This advanced material system consists of re-engineered carbon that has been physically and chemically modified to remove a large amount of gas phase pollutants efficiently and has a large pollutant storage capacity. It has been specially developed for the removal of toxic gases such as nitrogen dioxide ( $\text{NO}_2$ ), ammonia ( $\text{NH}_3$ ), VOCs and ozone ( $\text{O}_3$ ). The ENC filter creates only a very low pressure drop in the air flow and due to its chemical treatment prevents any bacterial growth.

## Operation

The AirHavn Pro is easy to operate and maintain. Plug-and-play, it can be set up in minutes and has three low noise fan speeds controlled directly on the device. The microprocessor independently controls the performance of the device so that the filtration level can be adjusted to the specific operating conditions. The front control panel reports any faults and indicates when the electrostatic cells need to be cleaned. The device requires a minimum amount of maintenance. With four castor wheels, including two with a braking mechanism, the AirHavn Pro is easy to move and secure in place.

| Features and Functionality                                    | Airhavn Pro   |
|---|---|
| Dual voltage ESP particle filter                              |    |
| High performance ENC nanocarbon gas filter                    |    |
| CPU for real-time function management                         |    |
| Filtering performance control and management                  |    |
| Automatic restart following a power loss                      |    |
| Alarm light for routine maintenance                           |    |
| Pre-alarm light for routine maintenance                       |    |
| Fault warning light   |   |
| Filtration performance warning light                          |  |
| Warranty on electronic components (for manufacturing defects) | 2 years   |
| Warranty on the motor/s (for manufacturing defects)           | 2 years   |

| Technical Specification |                       |
|-------------------------|-----------------------|
| Power consumption       | 78 W at highest speed |
| Voltage input           | 240 V @ 50/60 Hz      |
| Dimensions H x W x D    | 840 x 468 x 303 mm    |
| Weight                  | 30 kg                 |
| Certificates            | CE marked             |