

# AirHavn Pro

Helping protect healthcare workers  
from virus transmission

AirHavn Pro provides an additional layer of protection to front line healthcare workers by flooding rooms and corridors with large amounts of clean air, reducing exposure to airborne viruses.

A photograph of a hospital room. In the foreground, a nurse in blue scrubs and a hairnet stands at a desk, looking at a computer monitor. In the background, two patients are lying in hospital beds. The room has large windows with patterned curtains and medical equipment is visible.

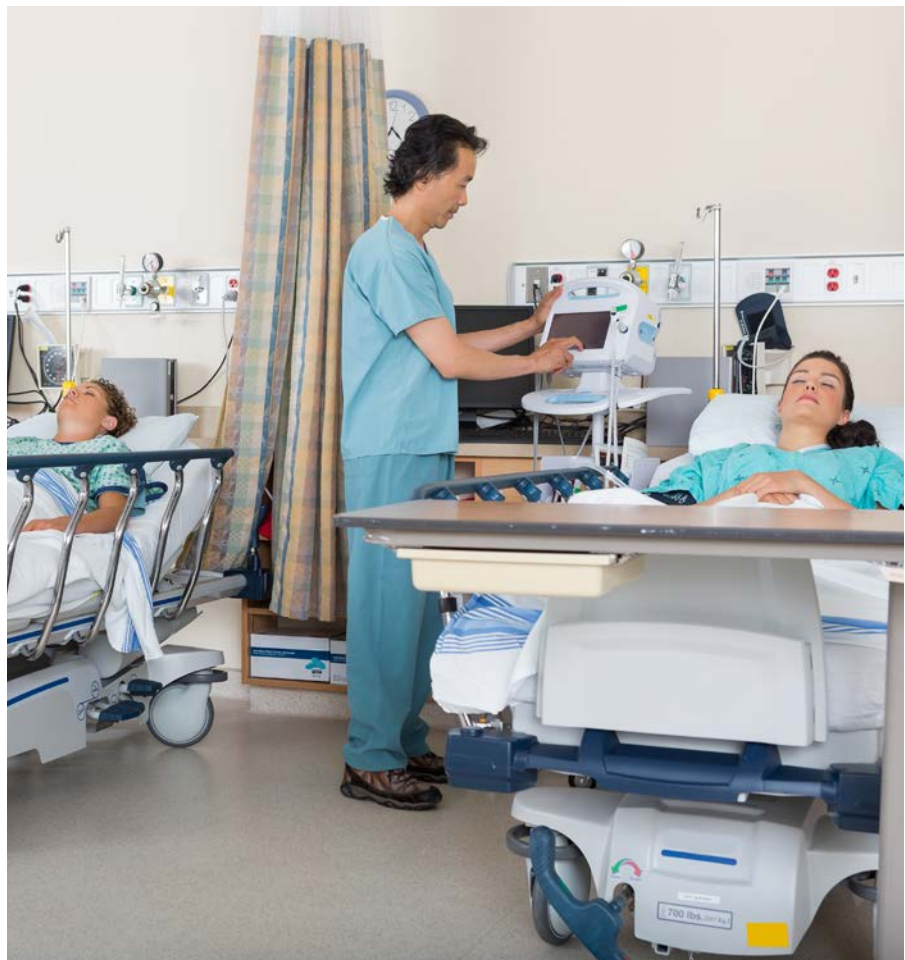
airlabs  
breathe easy

## 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 critical 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.

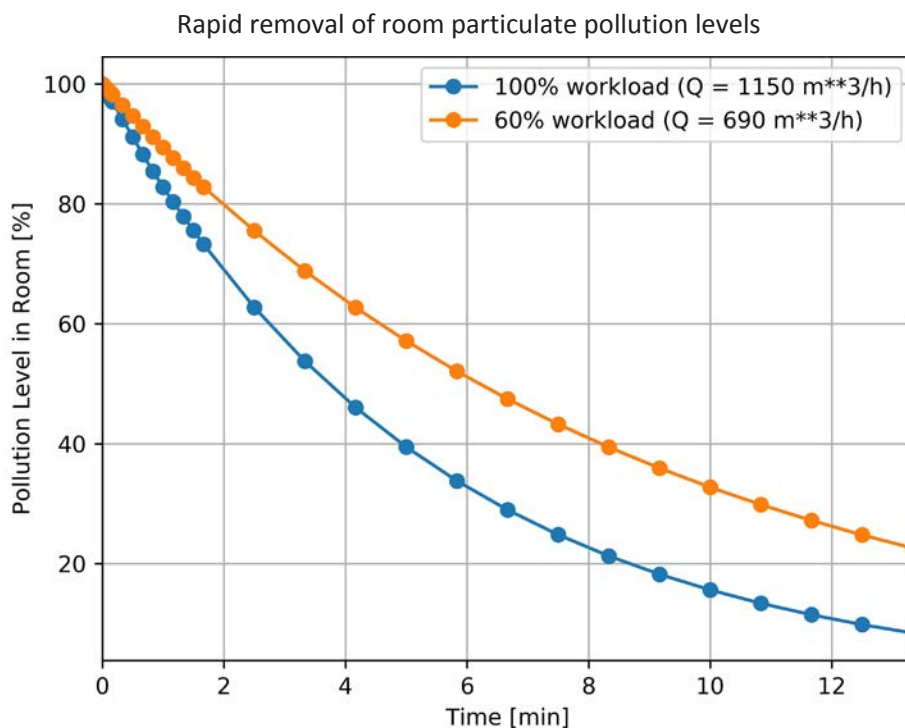
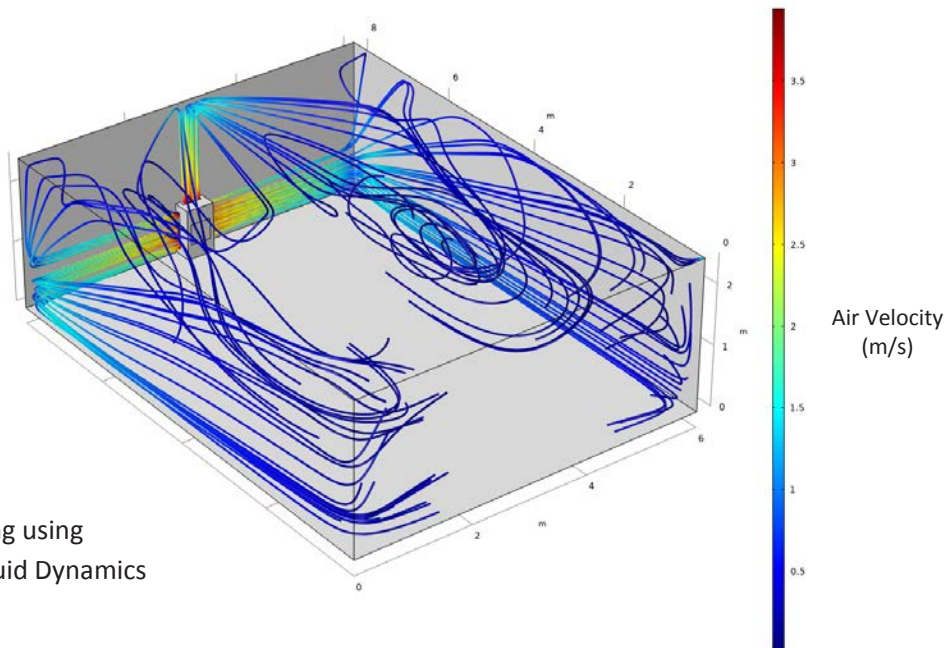
**AirHavn Pro produces more clean air, for its size, than any other product on the market.**



## 10 Air Exchanges per Hour \*

The key to maintaining safe and healthy air in a healthcare facility is the number of air exchanges per hour. The AirHavn Pro achieves this thanks to its best-in-class Clean Air Delivery Rate (CADR). Relative to its size, the AirHavn Pro has a CADR twice as high as most other air filtration devices.

Clean air modelling using  
Computational Fluid Dynamics





## Key Features

### High Air Flow Capacity

Delivers a massive CADR of 1150 m<sup>3</sup>/hr, enough to provide 10 air exchanges per hour in a 50m<sup>2</sup> room.

### Electrostatic Precipitation (ESP) Filter

The electrostatic cell filters 99% 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 unit results in significantly lower maintenance costs over the lifetime of the unit.

### Compact Design

The AirHavn Pro unit occupies only 0.14m<sup>2</sup> of floor space, yet delivers 1150m<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 125W of power, on the highest fan speed, at an ultra quiet 51dB.

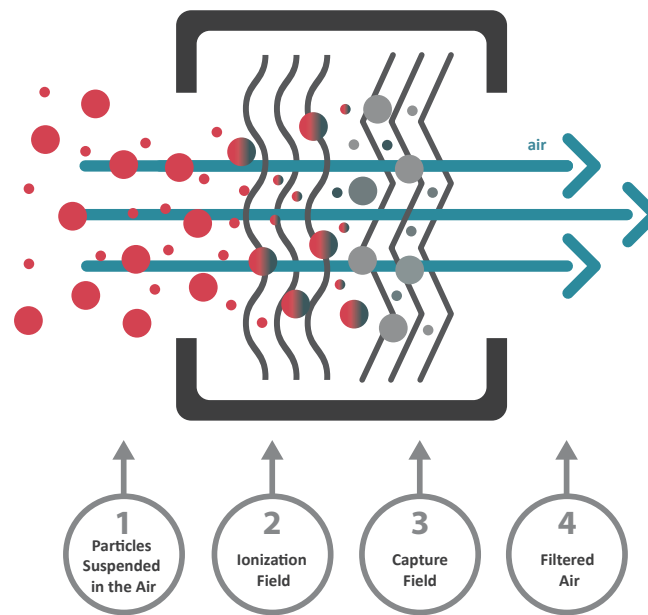
Performance	Clean Air Delivery Rate	Air Exchanges	Removal Efficiency %			Noise
	m <sup>3</sup> /hr	#/hr*	PM <sub>2.5</sub>	NO <sub>2</sub>	Ozone	dB
Speed 1	300	3	99	95	99	39
Speed 2	690	6	98	80	85	41
Speed 3	1150	10	96	65	70	51

\* Based on a room size of 50m<sup>2</sup> (with typical ceiling height of 2.3m)



## 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	125 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	EC Declaration of Conformity Directive 2006/42/EC IEC 60335-2-65