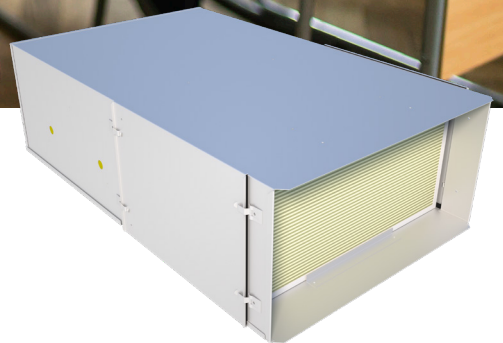


# OAP

OVERHEAD AIR PURIFIER



**HOLYOAKE**  
AIR MANAGEMENT SOLUTIONS | by **PRICE**  
**PRICE** | **TERMINAL UNITS**

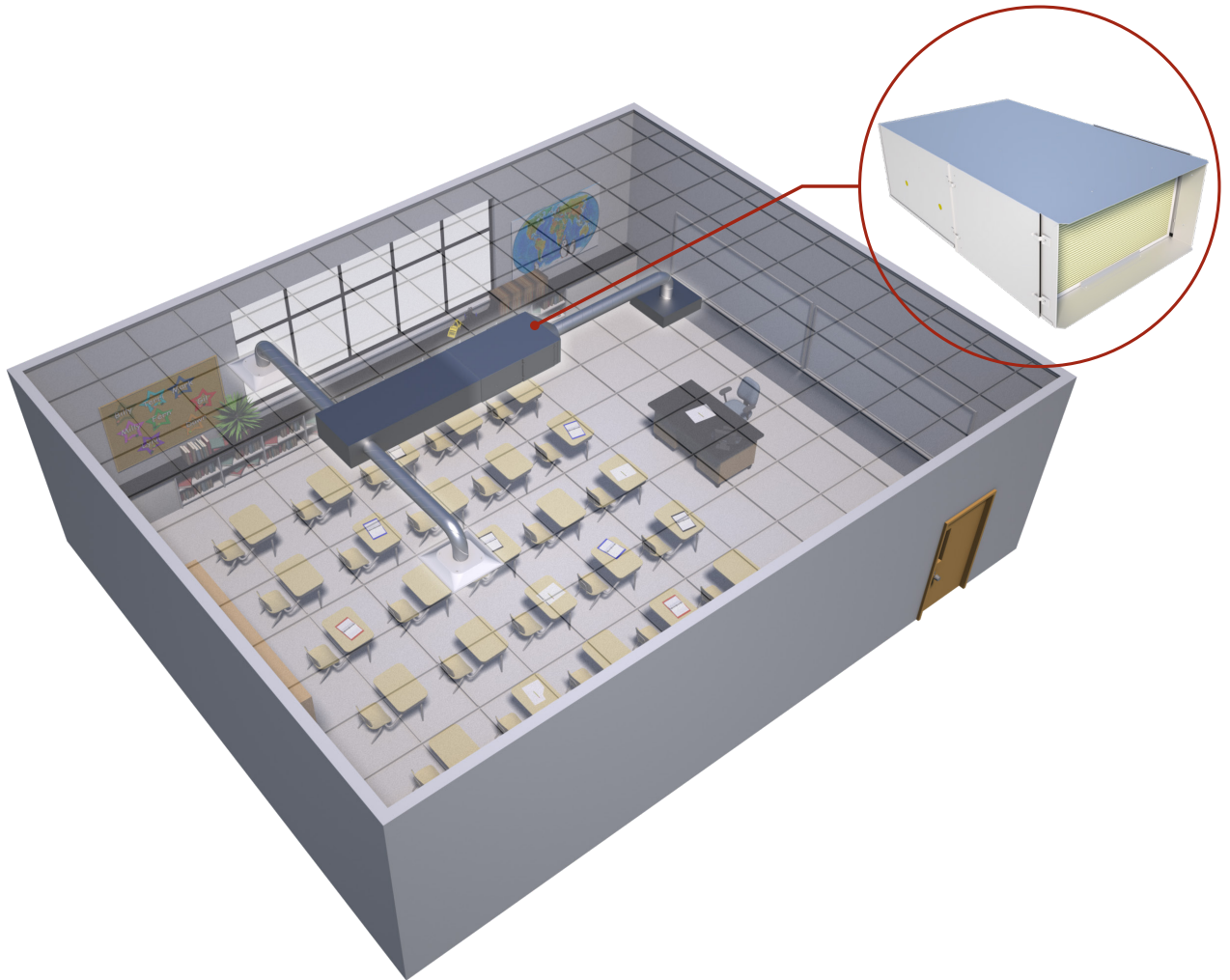
# OAP

## Overhead Air Purifier

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In today's world, indoor air quality is an increasing concern and the ability to provide clean air to room occupants is more important than ever. Air distribution systems in most commercial spaces are primarily designed with cost and thermal comfort in mind, which results in minimised ventilation airflows and lower than optimal indoor air quality.

The Overhead Air Purifier (OAP) is an ideal option for improving indoor air quality in high density areas like office spaces, classrooms, fitness centres, retail, and restaurants. It is designed to continuously cycle air through a HEPA filter, eliminating unwanted dust, germs, and contaminants.



The CDC (Centers for Disease Control and Prevention) recommends using high-efficiency air filtration systems for the safe operation of schools and office buildings, with additional consideration to include UVGI (ultraviolet germicidal irradiation) as a supplemental technique to inactivate particulates of common occupied spaces.<sup>1</sup>

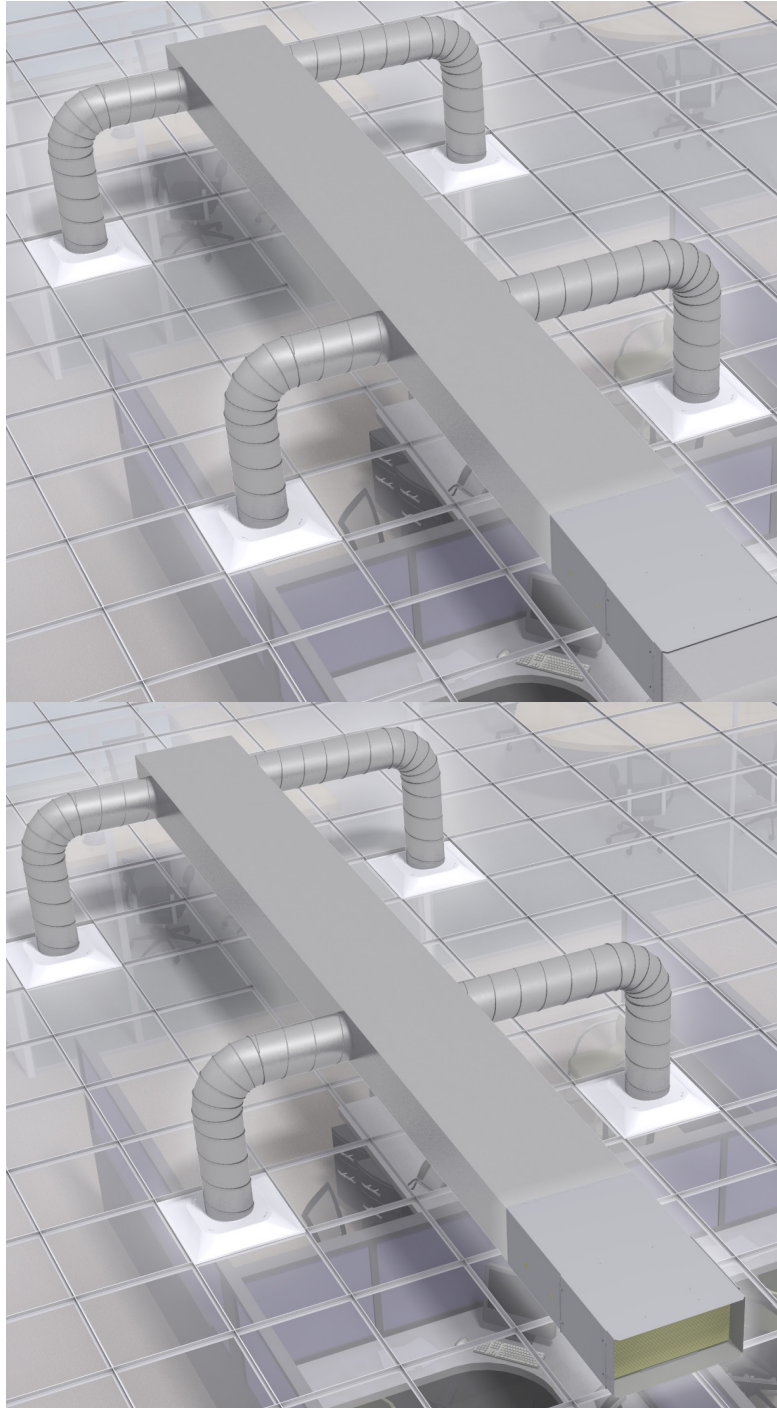
ASHRAE (American Society of Heating, Refrigeration and Air Conditioning Engineers), the primary North American organisation responsible for providing building standards and guidelines related to ventilation of commercial buildings, also recommends using high-efficiency air filtration (HEPA) systems to protect against air particulates in high density commercial and institutional spaces.<sup>2</sup>

<sup>1</sup> <https://www.cdc.gov/coronavirus/2019-ncov/community/office-buildings.html>

<sup>2</sup> ASHRAE Position Document on Infectious Aerosols, April 2020

## ENGINEERED PERFORMANCE

The OAP uses an internal fan to draw air through a HEPA filter, and then discharges the air into the space through any Price Holyoake diffuser. With the fan continually running, the air in the occupied space is consistently filtered to provide purified, clean air. The return inlet of the OAP can operate with or without ductwork.



## TYPICAL APPLICATIONS

The Overhead Air Purifier (OAP) is an ideal option for any indoor spaces where additional filtration is desired, including office spaces, classrooms, hotels, and more.

The OAP utilises proven air purification technologies to improve indoor air quality and combat the challenges of air particulates. The OAP is installed above the ceiling, making it a permanent solution without utilising valuable floor space, or modifying the existing HVAC system.

### FEATURES

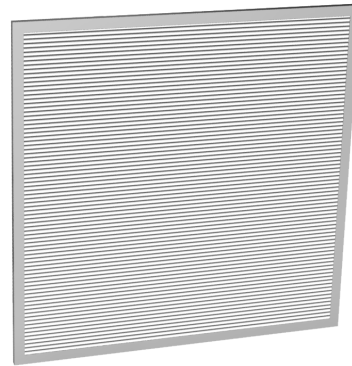
- + 47 - 378 l/s
- + Easily removable and replaceable HEPA filter
- + Quiet operation
- + Energy efficient smart EC motor
- + Adjustable fan speed

### OPTIONS

- + UV light treatment
- + Bipolar ionisation

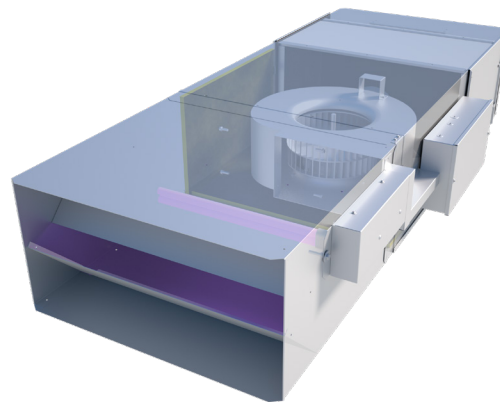
### FILTERS

The OAP is provided with a MERV 8 pre-filter and HEPA filter. The HEPA filter has a minimum efficiency of 99.97% at 0.3µm particle size.



### UV LIGHT

The UV light provides 360-degrees of high UV-C intensity light and is integrated into the interior of the OAP unit. It is ideal for disinfecting air streams in HVACR equipment. Widely used in hospitals and institutional applications, UV-C energy (254nm) is a low cost and safe solution for air disinfection.



### BIPOLAR IONISATION

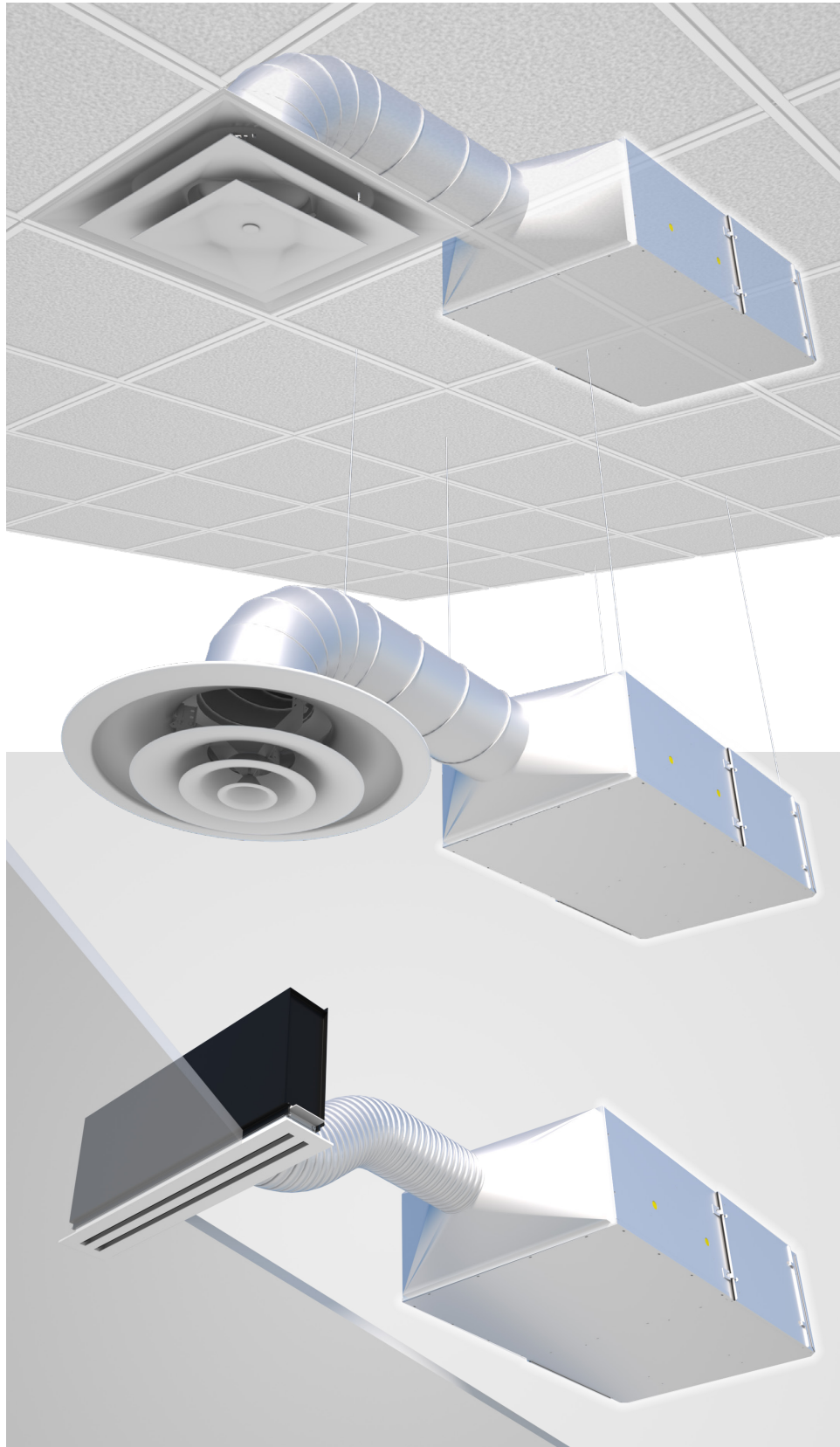
The plasma air ioniser proactively purifies indoor air by producing positive and negative oxygen ions to neutralise harmful pollutants and odours. Testing has proven the effectiveness of plasma air ionisation technology in the reduction of MS2 Bacteriophage.<sup>1</sup>



<sup>1</sup> <https://blog.plasma-air.com/plasma-air-ionization-proven-to-reduce-coronavirus-surrogate-ms2-bacteriophage-by-99-in-independent-spanish-testing/>

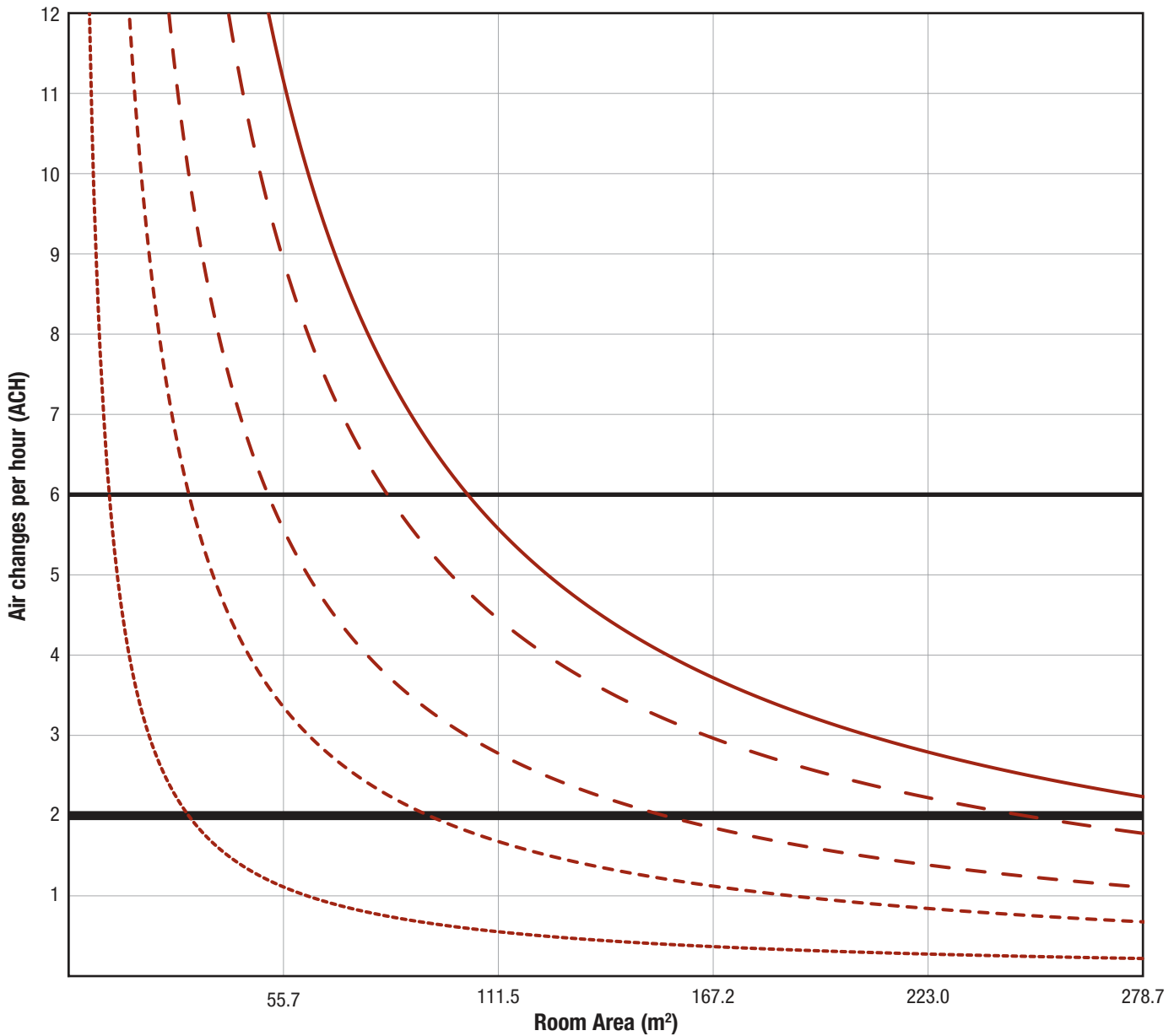
## FLEXIBLE INSTALLATION

The OAP can be installed above a t-bar ceiling, drywall ceiling, or in an exposed open ceiling application. Any Price Holyoake diffusers can be applied.



## PERFORMANCE DATA

### Air Changes Per Hour vs Room Area



..... 47 l/s    
 - - - - - 142 l/s    
 - - - - - 236 l/s    
 - - - - - 378 l/s    
 ————— 472 l/s

————— The Harvard Healthy Buildings strategy recommends targeting 6 air changes per hour (ACH) for classrooms to maintain ideal air quality [Schools For Health, Risk Reduction Strategies for Reopening Schools (updated 11-2020), Keeping Schools Open Needs to be Prioritized – Schools For Health]

————— ASHRAE has recommended a minimum of 2 air changes per hour (ACH) in classrooms [ASHRAE Epidemic Task Force, Schools & Universities, (updated 7-17-2020), <https://www.ashrae.org/>]





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