

RAP

ROOM AIR PURIFIER



HOLYOAKE
AIR MANAGEMENT SOLUTIONS | by **price**

price | **TERMINAL UNITS**

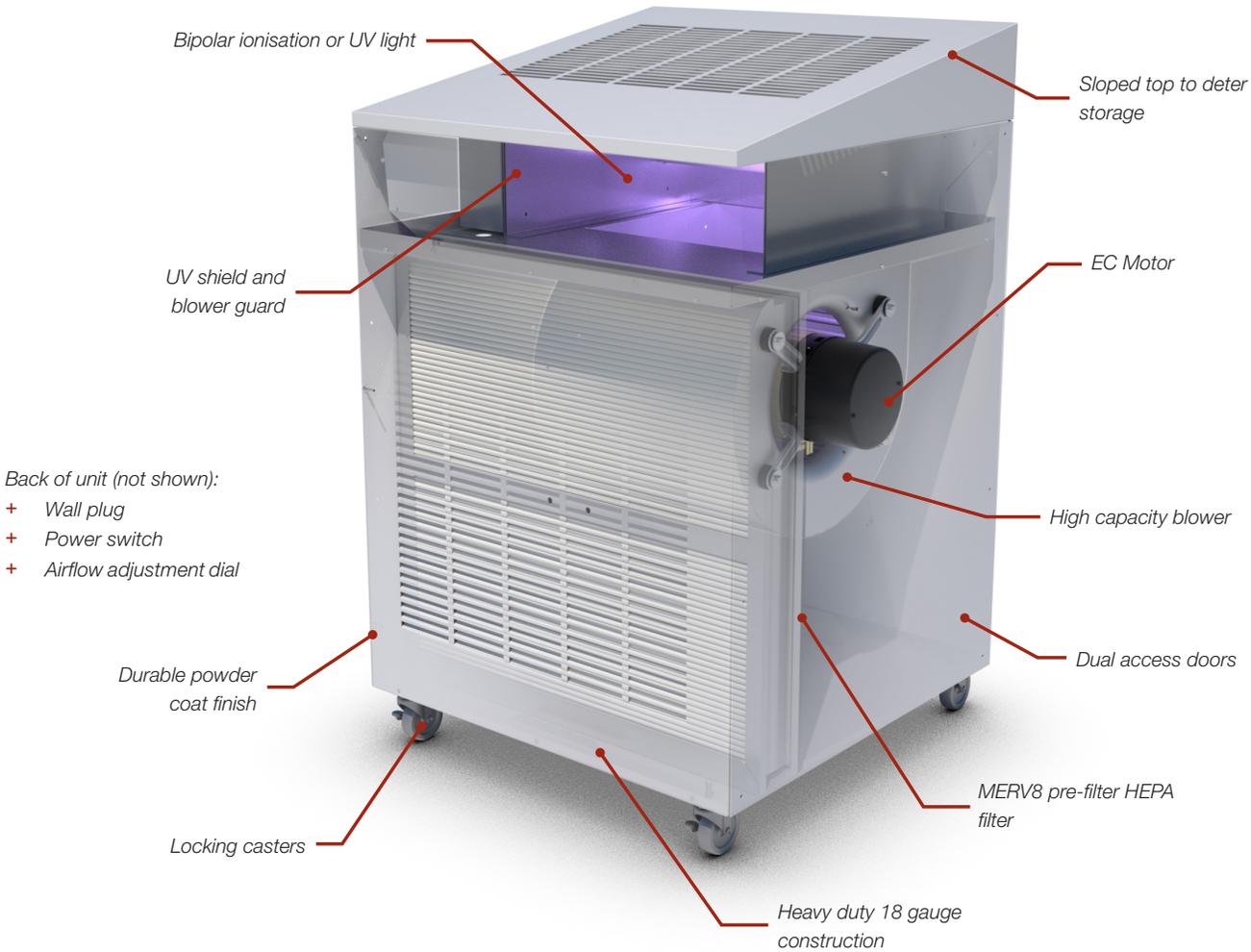


RAP

Room Air Purifier

In the post pandemic world, indoor air quality remains as one of the most important aspects of a building. Indoor air quality can be improved in three ways: dilution, filtration and ventilation. Renovating existing HVAC systems to improve indoor air quality can be expensive and time consuming. Indoor air quality can be improved without renovations to existing systems with the use of a room side air purifier.

The Room Air Purifier (RAP) is a commercial grade purifier designed to improve indoor air quality through the use of HEPA filtration.* The RAP is a plug and play solution that does not require any modifications to the existing building, making this unit ideal for high density occupied spaces such as schools, offices, fitness centers, retail and restaurants.

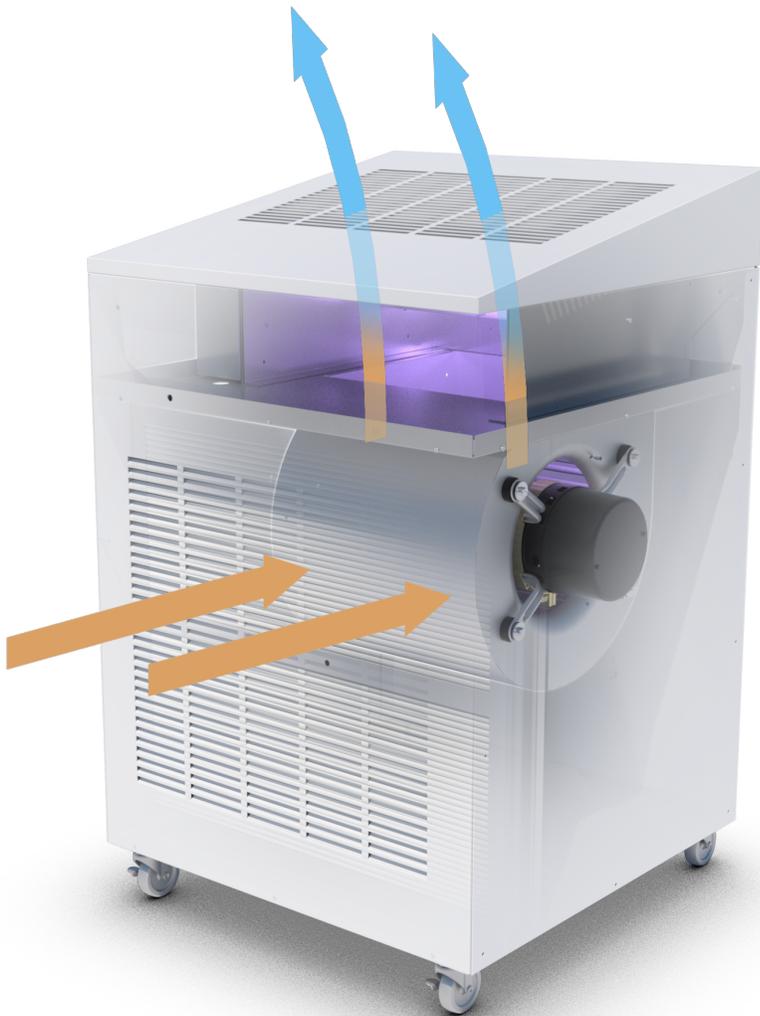


RAP

Room Air Purifier

ENGINEERED PERFORMANCE

The RAP uses an internal fan to draw air into the return, through a HEPA filter, and then circulates the air back into the space through a grille. With the fan continually running, the air in the occupied space is consistently filtered to provide purified, clean air.



TYPICAL APPLICATIONS

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

The RAP improves the quality of indoor air. It is designed to continuously cycle air through a HEPA filter, eliminating unwanted dust particles, germs, and contaminants.

FEATURES

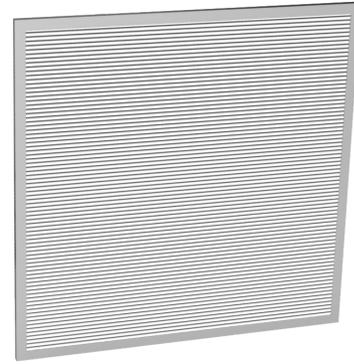
- + 70-283 l/s
- + Easily removable and replaceable HEPA filter
- + Quiet operation
- + MERV 8 pre-filter
- + Energy efficient smart EC motor
- + Adjustable fan speed
- + 230 V power cord
- + Powder coat finish
- + Casters provided for ease of mobility

OPTIONS

- + UV light treatment
- + Bipolar ionisation

FILTERS

The air entering the RAP is pre-filtered with a MERV 8 filter. The air then passes through a HEPA filter with a gasket seal on the filter frame to create a reliable seal to prevent filter bypass. 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 RAP unit. It is ideal for disinfecting air streams in HVACR equipment. Widely used in hospitals and institutional applications, UV-C energy (254nm) also lowers the cost of maintaining and operating HVAC equipment.



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, a surrogate for particulates, in indoor environments.¹



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

RAP

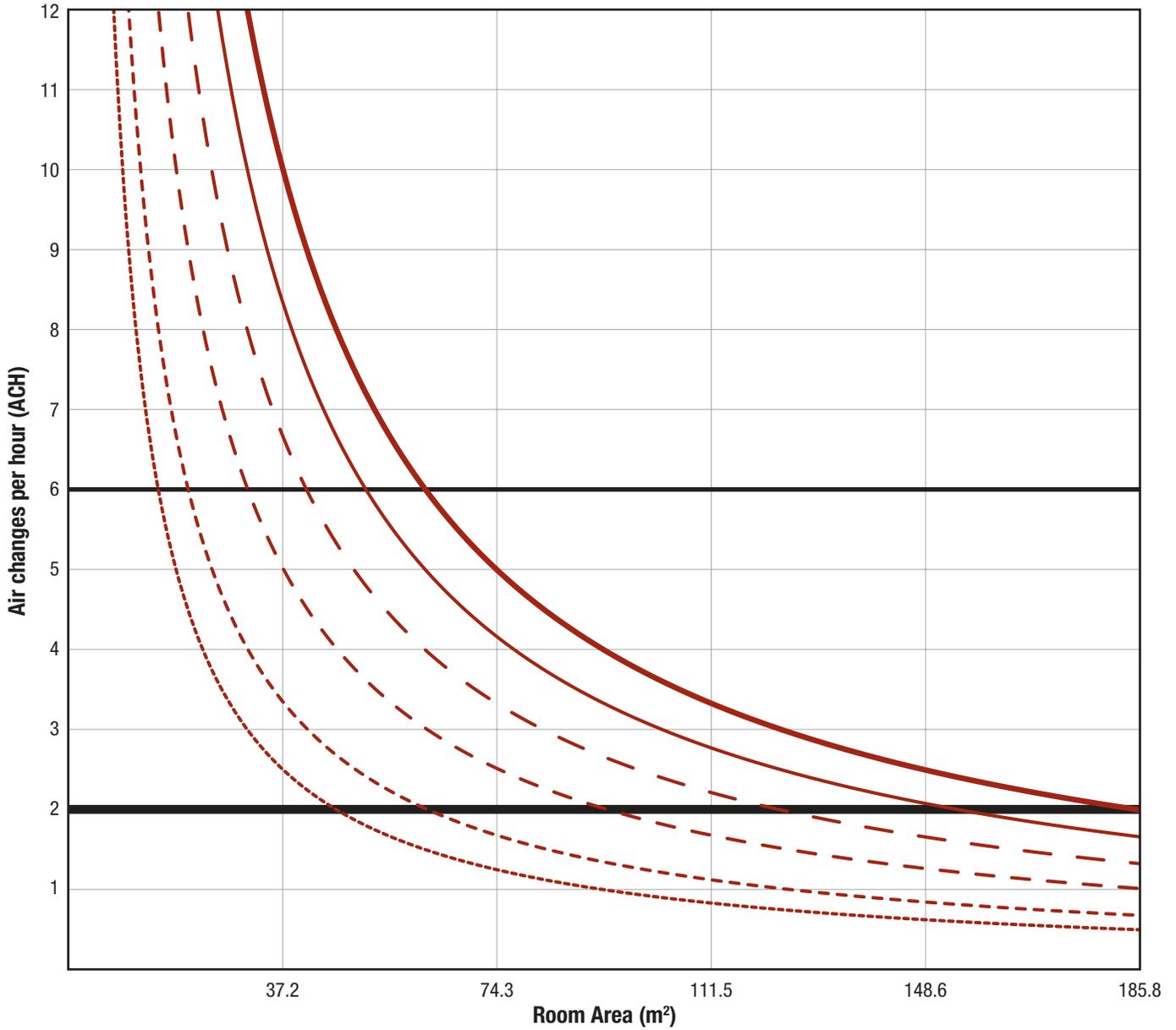
Room Air Purifier



Room Air Purifier is simple to install, operate, and move around the space as needed.

PERFORMANCE DATA

Air Changes Per Hour vs Room Area



----- 70.8 l/s
 - - - - - 94.4 l/s
 - - - - - 141.6 l/s
 - - - - - 188.8 l/s
 - - - - - 236 l/s
 - - - - - 283.2 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 recommends 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/>]

1. RAP is Third-party lab verified to remove up to 99.9% of airborne pathogens under the specified conditions of use.*
2. RAP can be used to increase the air change rate and reduce the concentration of airborne pathogens and other contaminants.*
3. RAP can be used to increase the air change rate and remove airborne pathogens from the space.*

*Removal of 99.9% of airborne MS2 Bacteriophage (virus), A. niger (mold), and E. coli (bacterium) was demonstrated by third-party laboratory when RAP was operated at its maximum set-point in a 10'x10'x10' room at ambient temperature and humidity. A microbial suspension was aspirated into the chamber and sampling was taken every 15 minutes over a period of 2 hours. 99.9% removal was achieved within 30 minutes of test operation for all three of the aforementioned airborne pathogens.



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