

CAP

CEILING AIR PURIFIER



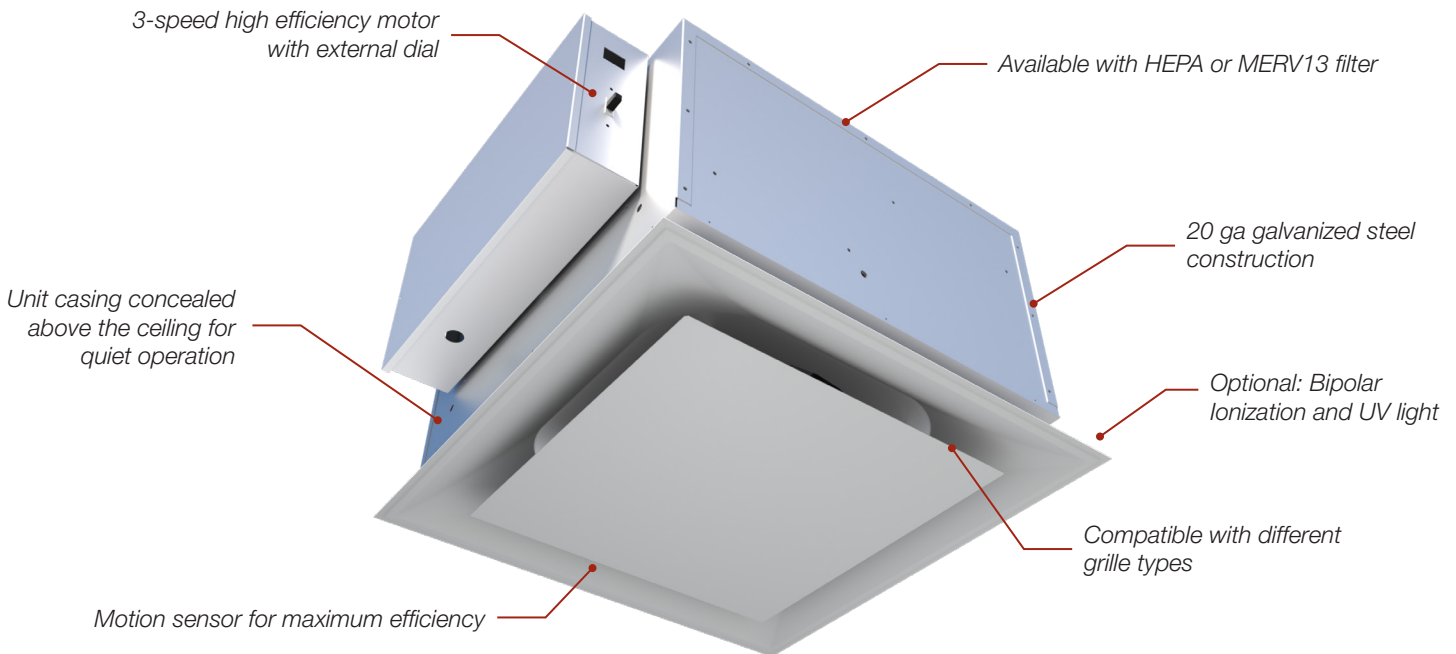
price | **TERMINAL UNITS**

CAP

Ceiling Air Purifier

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 minimized ventilation airflows and lower than optimal indoor air quality.

The Ceiling Air Purifier (CAP) is an ideal option for discretely improving indoor air quality, particularly in small areas such as offices, conference or meetings rooms and small multi-purpose rooms. It is designed to continuously cycle air through a HEPA filter, eliminating unwanted dust particles, germs and contaminants.



The CDC (Centers for Disease Control and Prevention) recommends using high-efficiency air filtration systems for the safe reopening 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.¹

ASHRAE (American Society of Heating, Refrigeration and Air Conditioning Engineers), the primary US organization 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.²

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

² ASHRAE Position Document on Infectious Aerosols, April 2020

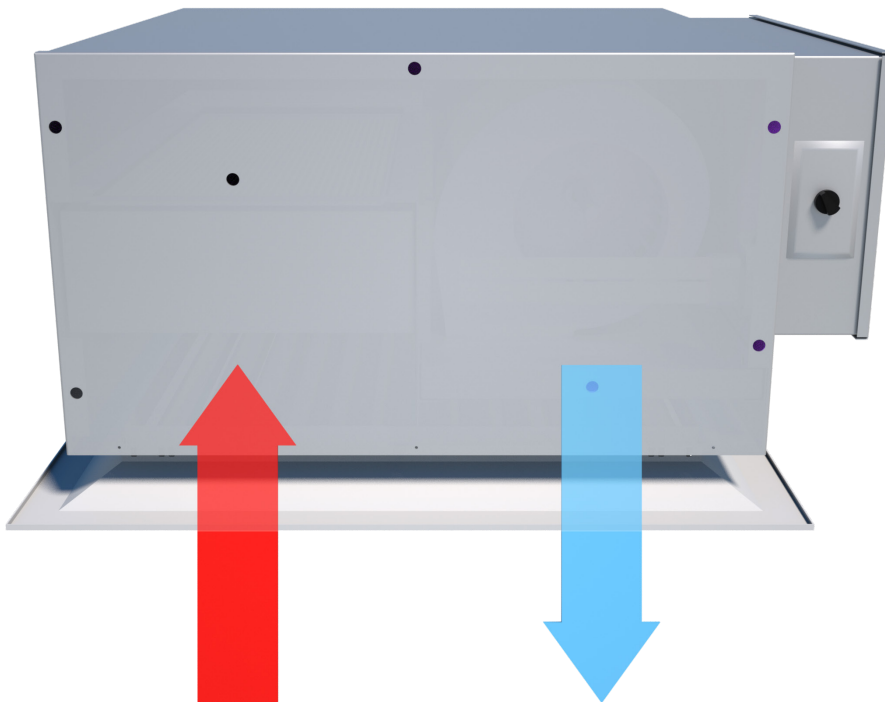
ENGINEERED PERFORMANCE

The CAP uses an internal fan to draw air through one side of the grille, through a HEPA filter, and then discharge the air back into the space through the opposite side of the grille. With the fan continually running, the air in the occupied space is constantly filtered to provide purified, clean air.

TYPICAL APPLICATIONS

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

The CAP 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

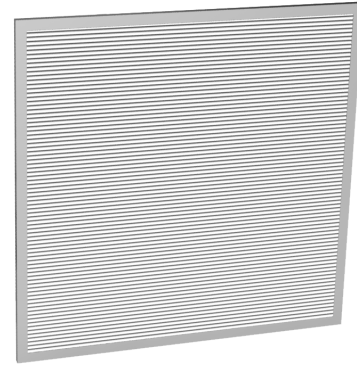
- + 3-speed fan operation with external dial
- + Easily removable and replaceable HEPA filter
- + Quiet operation
- + Multiple diffuser types available
- + All standard US motor voltages available
- + Grille with antimicrobial powder coat finish

OPTIONS

- + UV light treatment
- + Bi-polar ionization
- + MERV13 Filter

FILTERS

The air entering the CAP passes through a HEPA filter which has 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 CAP 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 IONIZATION

The Plasma Air ionizer proactively purifies indoor air by producing positive and negative oxygen ions to neutralize harmful pollutants and odors.

Testing has proven the effectiveness of Plasma Air ionization technology in the reduction of MS2 Bacteriophage.



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

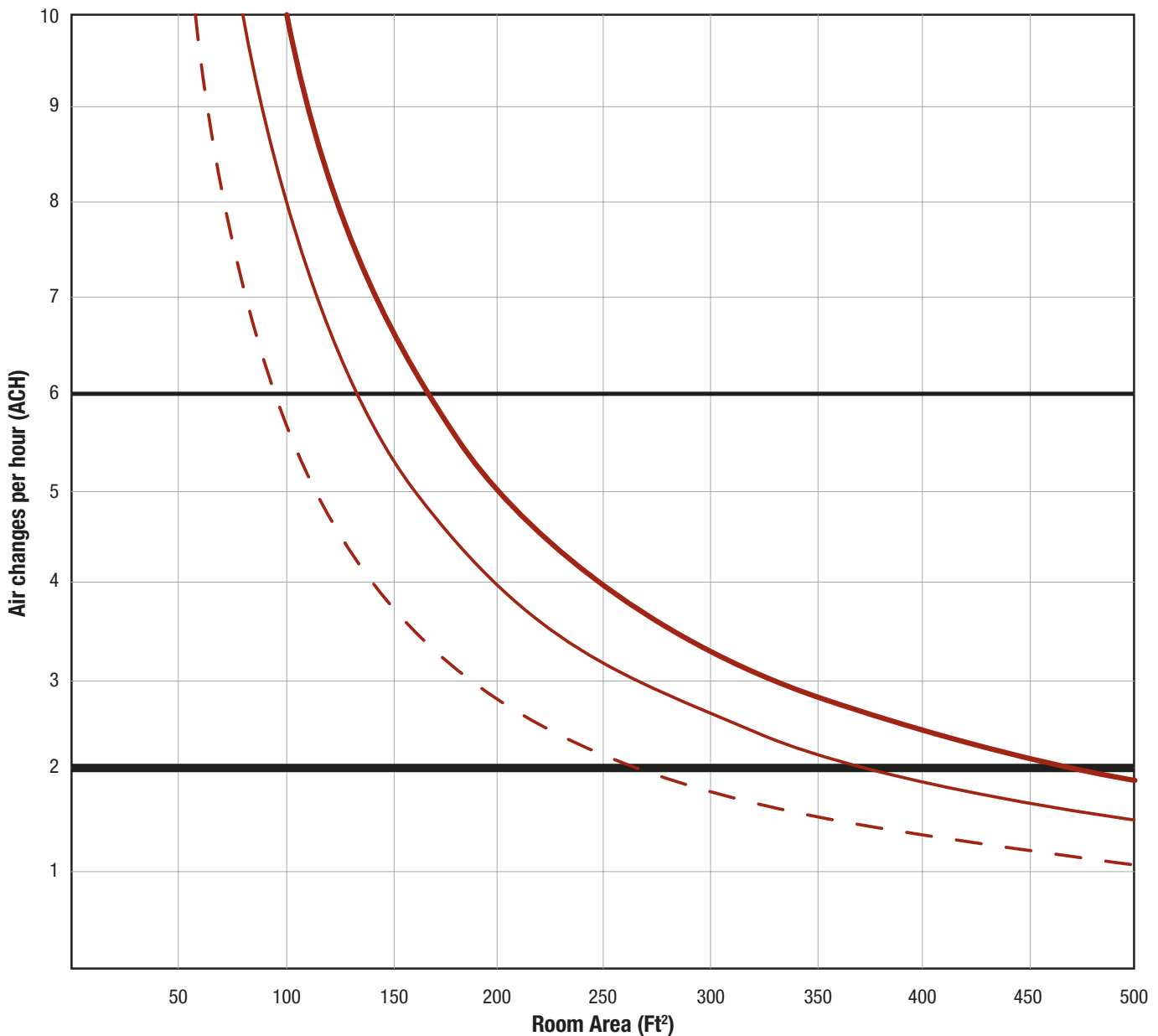
CAP Ceiling Air Purifier



Ceiling Air Purifier is simple to install and operate.

PERFORMANCE DATA

Air Changes Per Hour vs Room Square Footage



--- 85 CFM — 120 CFM — 150 CFM

— 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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