



## Product Overview

AstroCube provides an energy-efficient solution, introducing fresh, clean air from outdoors, to help dilute high carbon dioxide concentrations while enhancing air circulation. The unit is equipped with a three stages of filtration, from G4 primary to F8 secondary and H14 HEPA filter to ensure the air remains clean. Additionally, it features a heat recovery core, which reduces heat transfer from the outdoors, further improving energy efficiency and reducing the load on air conditioning systems.

## Key Features



### Reduce Indoor CO<sub>2</sub> Concentration

Enhance ventilation by introducing fresh outdoor air to dilute indoor CO<sub>2</sub> concentrations



### AMB H14 HEPA Filter

Removes up to 99.995% of ultra-fine particles, including viruses, bacterial, and fungal organisms with a 99.9% efficacy rate



### Wi-Fi Smart Controller

Monitor and control Indoor Air Quality (IAQ) in real-time through the AAF Connect mobile app



### Smart IAQ Sensor

Real-time monitoring of the current indoor air quality (IAQ) such as PM2.5 and CO<sub>2</sub>



### Energy Saving with Heat Recovery

Hot incoming fresh air is cooled by air being expelled which substantially reduces cooling required achieving energy conservation



## Key Certifications



## Equipment Specification

|                           |                                              |                                             |                                      |
|---------------------------|----------------------------------------------|---------------------------------------------|--------------------------------------|
| <b>Airflow</b>            | 500 CMH                                      | <b>Controller</b>                           | AAF Connect App, Touch Panel Display |
| <b>Fresh Air Inlet</b>    | 150 mm Collar                                | <b>Housing Material</b>                     | Powder Coated Steel                  |
| <b>Exhaust Air Outlet</b> | 100 mm Collar                                | <b>Housing Colour</b>                       | White                                |
| <b>Return Air Inlet</b>   | Perforated                                   | <b>Filter Configuration</b>                 | Prefilter + Secondary + H14 HEPA     |
| <b>Supply Air Outlet</b>  | Linear Air Grille                            | <b>Power Supply,</b>                        | 1ph/50Hz/220~240VAC                  |
| <b>Operation Mode</b>     | Unidirectional, Bidirectional, Recirculation | <b>Applicable Coverage Area<sub>2</sub></b> | 56 - 477 m <sup>2</sup>              |
| <b>UV</b>                 | No                                           | <b>Sound Pressure Level</b>                 | 41 - 51 dBA                          |
| <b>Wi-Fi</b>              | Yes                                          | <b>Heat Recovery Efficiency</b>             | 68%                                  |

<sup>1</sup>Unit is equipped with Type G power cord.

<sup>2</sup>The coverage area is calculated based on 3m ceiling height and 0.35 - 3 air purification per hour at maximum airflow.

## Equipment Information

| Part Number        | Description | Actual Housing Size<br>mm<br>(H x W x D) | Current<br>(A) | Weight<br>(kg) |
|--------------------|-------------|------------------------------------------|----------------|----------------|
| TAC-50F1-4811-2110 | AstroCube   | 1900 x 500 x 360                         | 1.6            | 110            |

## Filter Information

| Part Number     | Model               | Actual Size<br>mm<br>(W x H x D) | Filter Class | Purpose                                                    |
|-----------------|---------------------|----------------------------------|--------------|------------------------------------------------------------|
| TAC-G4          | AstroCube G4        | 292 x 400 x 110                  | G4           | Removes coarse particles                                   |
| TAC-F8          | AstroCube F8        | 292 x 400 x 140                  | F8           | Removes fine particles                                     |
| M3281-1451-2001 | AstroVee 2V AMB H14 | 287 x 400 x 292                  | H14          | Removes ultra-fine particles with antimicrobial properties |

\*Other optional filters are available. Please contact our sales representatives for more information.

