

AstroPure 450

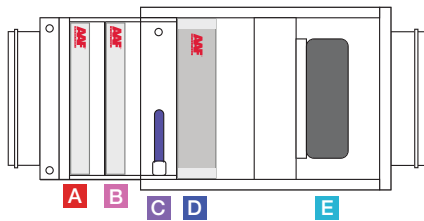
with H14 HEPA Filter

AIR PURIFIER



Advantages & Benefits

- Integrated with two of high-performance filters can efficiently remove fine particles, bacteria, and virus
- Optional add on filter slot for secondary or gas phase filter is available
- Built for applications that require optimal airflow and more room air change in a small form factor
- Safe and toolless filter replacements
- 100% individually leak-free tested



- A** 1st Stage Filter
- B** 2nd Stage Filter (Optional)
- C** UV Light (Optional - Under Development)
- D** Final Stage Filter H14 HEPA
- E** Motor

Product Overview

Compact design built for different applications. AstroPure 450 is suitable for all kinds of indoor environments, especially for hospitals, dental clinics, schools, airports, financial institutions, hotels, shopping malls, etc. It can be hung on the ceiling for rooms with limited space, inline with existing duct system or use as a stand-alone device, and more.

Integrity Tested

AstroPure 450 is 100% leak-free tested to reduce the risk of airborne infection. Each unit is individually tested to meet the customer's expectations for performance, quality, and durability over the life of the product.

Powerful Filtration Stages



First Stage - AmAir® 300E

The AmAir® 300E filter is ideal for protecting secondary and HEPA air filters from premature dust loading and replacement. It is made of non-woven synthetic cotton blend. To ensure the media pack does not crack or deteriorate under difficult operating conditions, it is bonded to the inside of its frame at all points of contact and retained in position at the air leaving and air entering sides. On the air leaving side of the media pack there is a wire mesh pleat support.

Second Stage

Optional add on filter slot for secondary or gas phase filter is available.



Final Stage - MEGACel® II ePTFE

MEGACel® II ePTFE is made of high tensile strength ePTFE media that is up to 6 times stronger than microglass fiber. Its media provides superior benefits, including inert chemical properties and reduced resistance. This is achieved through a more uniform fiber distribution, smaller fiber distribution, smaller fiber diameter, and smaller pore size. It generates substantial energy savings while delivering the required filtration performance. Furthermore, it is extremely resistant to harsh conditions, offers superior efficiency and pressure drop characteristics. Since the media is hydrophobic it repels water making it water resistant.



Bringing clean air to life.™

AstroPure 450

Application

AstroPure 450 is designed as a multi-application air purifier, it can be used to improve the air quality of the **Recirculation** air by removing PM2.5, bacteria, and virus carried by building occupants entering the room. It is also recommended for **Negative Pressure** rooms to clean exhaust/contaminated air before releasing it to the environment. AstroPure 450 is also suitable for removing airborne contamination, ensuring **fresh air** coming from the environment is free from pollutants.

Due to its compact design AstroPure 450 is an ideal component for ducted air conditioners. When **inline** with existing ducted air conditioner it can provide additional fan static for high efficiency or HEPA filter, ensuring well distribution of airflow during operation while reducing the risk of airborne infection.

Specification

| | |
|---------------------------------|--|
| Air Flow | 450 m ³ /h |
| Room Size | 24 - 42 m ² |
| Housing Color / Material | White Powder Coated, Galvanised Steel |
| Filter Configuration | AmAir® 300E G4 + MEGACel® II ePTFE H14 |

Housing Information

| Part Number | Model | Actual Housing Size mm (L x W x H) | Voltage / Frequency (V/Hz) | Power (W) | Weight (kg) |
|---------------|---------------|--|----------------------------------|--------------|----------------|
| M6011-226-01H | AstroPure 450 | (780+100) x (300+25) x 340 | 230 ~ 50/60 | 135 | 25 |

Filter Information

| Part Number | Model | Actual Size mm (W x H x D) | Filter Class | Purpose |
|-----------------|-------------------|----------------------------------|--------------|---|
| M140-202-303 | AmAir® 300E | 289 x 289 x 44 | G4 | Removes coarse particles |
| M5752-7210-2040 | MEGACel® II ePTFE | 296 x 296 x 69 | H14 | Removes fine particles and pathogens |

*Other optional filters are available. Please contact your sales representative for more information.

Disclaimer: In complying with the policy of continuous improvement of AAFM, the information contained in this document is subjected to change without prior notice.

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MAFP-1-006A 06/20