

AstroFan FFU - AC

Product Features & Benefits

- Low off-gassing components
- Low energy consumption to save cost
- High total static pressure at full airflow
- Easy installation between the skeleton of cleanroom ceiling
- Low noise



AAF AstroFan AC FFU is a self contained Fan Filter unit for use in Turbulence and Laminar flow cleanroom application. It is one of the most cost effective performance units with the lowest noise level to produce clean air with laminar airflow.

With its customized housing design, FFU is flexible for any type of ceiling grids system installation, such as AAF 50mm T bar grid and AstroDry HD ceiling grid. With the use of Knife edge filter, the unit can be used in AstroGel ND gel sealed ceiling grid system to ensure complete airtight. It can be easily upgraded and integrated into any ceiling configuration in accordance with design specifications to achieve cleanroom cleanliness of Class 100 to Class 1.

AAF AstroFan FFU is designed for easy setup without any hold-down clamping device and is available in Room Side Change execution with an optional adapter panel.

Sturdy Construction for more Application

AAF AstroFan AC FFU is composed of one high-performance direct-driven back radial blade-fan equipped with removable AstroCel II or MegaCel II filter. Every piece of filter is tested by AAF in-house test lab to meet the IESRP standard to ensure product performance with no leakage.

The leading facilities of Pharmaceutical, Micro electronics, Food & Beverage, healthcare, etc., have its primary concern of controlling Particulate and Airborne Molecular Contamination (AMC). The main problems in a cleanroom are contamination of products, tools and processes and odour control. AAF design FFU for its stable construction to prevent leakage and eliminate resonance when more FFU units operate in one time. Stainless steel, Galvalume and Aluminum housing construction combine with chemical resistance PTFE HEPA/ULPA filter are available for all Industries use.

Speed control

Low energy consumption reduces operating Cost

The AstroFan FFU comes with a single phase or optional 3-phase high efficiency, low maintenance, long life AC motor. Optional transformer & variable speed control, 5-step control for regulating fan speed to reduce total operating cost.

Low Off-Gassing Components

All components are low off-gassing to meet stringent requirements of specific industries.

High Total Static Pressure at Full Airflow

The Low-Pressure drop AstroCel II and MegaCel II filter, in combination with the high total static pressure Fan, provides an external static pressure of 50 to 150 Pa at full rated airflow to allow additional attachment of an optional pre-filter.

Easy Installation

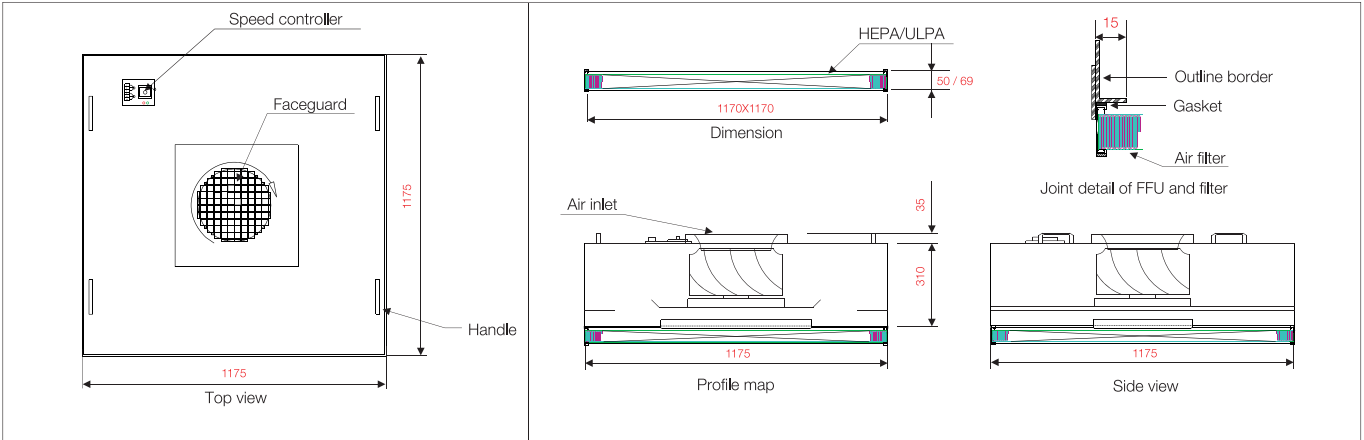
The AstroFan FFU is designed to fitting in with all type of ceiling grid systems without any hold-down clamping. For quick and easy filter replacement, a Room Side Replaceable (RSR) optional adapter panel is available.

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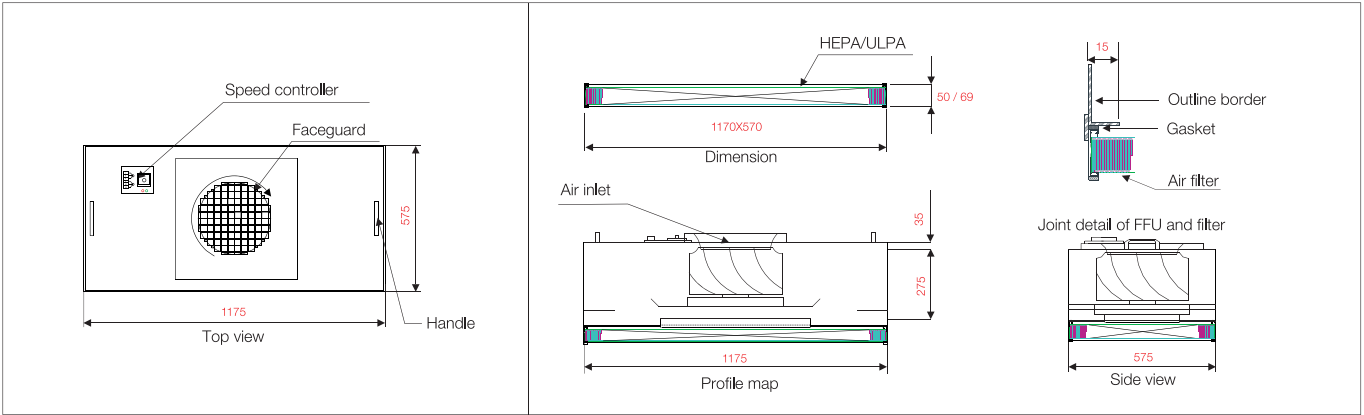
Specifications

Model	AstroFan AC FFU-AF	AstroFan AC FFU - AK	AstroFan AC FFU -
Size(length x width mm)	1175 x 575	1175 x 575	AL
Inlet cone diameter	250 + 25 (inlet cone)	275 + 35 (inlet cone)	1175 x 575
Total pressure drop (Pa) @ 0.45 m/s	190	280	310 + 35 (inlet cone)
Power consumption (W)	130 ~ 170	122 ~ 180	230
Power (A)	0.56 ~ 0.78	0.55 ~ 0.74	228 ~ 255
Cabinet material	SUS/AL/GL		1.06 ~ 1.20
Power supply	220V 1 50/60Hz		
Appropriate temperature (°C)	-25 ~ 40		
Air velocity (m/s)	0.3 ~ 0.5		
Filter / Filter thickness (mm)	glass fiber filter/69		
Efficiency	H13 ~ U15		
External pressure drop (Pa)	90		
Speed regulator	variable		
noise level (dBA)	< 60 dBA	< 60 dBA	< 60 dBA

ACFFU Dimension Figure (mm)
AstroFan AC FFU-AL Dimension Figure



AstroFan AC FFU-AK Dimension Figure



Remark 1: PTFE Filter can be chosen, for detail specifications please contact AAF sales
Remark 2: other sizes can be chosen for FFU