

AstroFan FFU

Self contained Fan Filter Unit

- Available in 6 standard sizes
- Low sound level
- Light weight bright aluminum housing
- Fan motors in AC and EC technology
- Suitable for AstroCel II filters, available in Class H14 – U17
- Available in Room Side Change execution



Application

The AAF AstroFan FFU is a self-contained ceiling filter fan unit for use in turbulent mixing and laminar air flow cleanroom areas. The unit is designed for use with the AAF 50 and 55 mm T-Bar ceiling grid, the AstroDry HD ceiling grid and compatible grids.

When executed with a knife edge, the unit can also be utilized in the AstroGel ND liquid seal ceiling grid. The unit is light weight and easy to install.

Construction

The AstroFan unit comprises a cleaned bright aluminum housing with a high performance, encapsulated, direct driven backward curved fan/motor combination and a replaceable HEPA or ULPA AstroCel II filter. Options include for pre-filter arrangements, high pressure fans or Stainless steel applications for specific market demands as for example the food industry and filling lines..

Noise level

The unit, with a clean filter at full rated air flow has a single unit SPL (Sound pressure level) of 52-56 dB(a) at 1 m of the filter face.

Motors and controls

The unit is available with traditional high efficient AC motors, operating with single phase or 3 phase motors. Controls can be either with 5 step speed controller or stepless controller. This execution provides economical solution for many applications. Utilizing EC system (electrically commutated) external rotor motors greatly reduces the power consumption of the unit, because of reduced losses.

Consequently the cooling requirement will also be reduced. Controls include the electronic commutation unit, standard single unit control, standard RFI suppression and PFC (power factor controller) and computer interface. Two wire twisted cable installation to the bus

makes installation easy. Mains supply is single phase 230-270V 50/60Hz

AstroCel II Hepa & Ulpa filters

The unit is equipped with HEPA filters in Class H14 to EN 1822 or ULPA filters Class U15, U16 or U17. All filters are factory scanned to the European Standard to ensure leak free operation.

Selected low pressure drop of the AstroCel II provides, in combination with the high total static pressure of the fan, a free static pressure of 70-100 Pa at full rated airflow. This results in extended filter life or it can be utilized for external use on pre-filters or cooling coils.

Options

- Room Side Change (RSC)
- Pre-filter arrangement
- Cooling coil
- Individual ceiling frames
- High pressure fans

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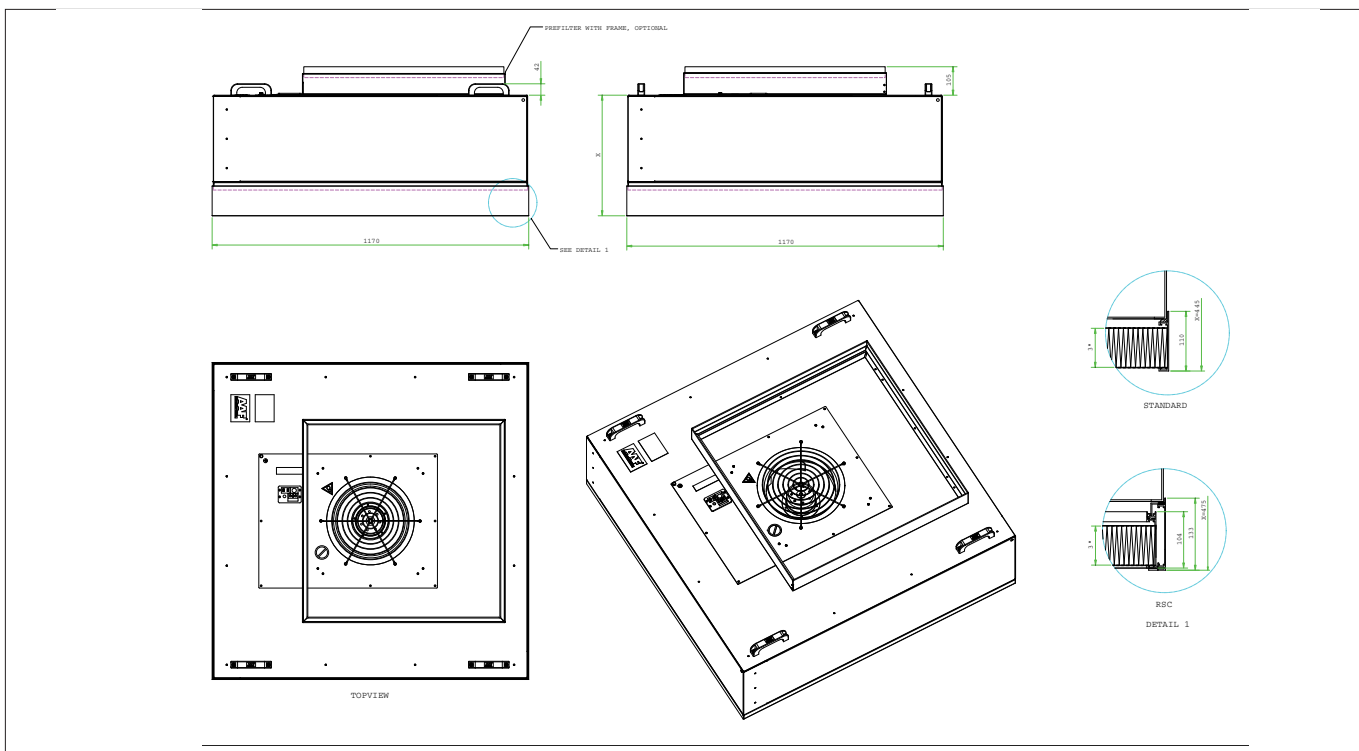


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Specifications

Nominal size	FFU 66	FFU 69	FFU 612	FFU 99	FFU 912	FFU 1212
Airflow [m ³ /h]	520	800	1080	1220	1650	2220
Actual dimensions ¹ L x W [mm]	570 x 570	570 x 870	570 x 1170	870 x 870	870 x 1170	1170 x 1170
Height including filter ² [mm]	445	445	445	445	445	445
Extra height room side change execution	30	30	30	30	30	30
Nominal Motor data 0.45 m/s @ 160 Pa						
230 / 1 / 50 Hz AC	0,16 kW	0,21 kW	0,21 kW	0,32 kW	0,32 kW	0,32 kW
400 / 3 / 50 Hz AC	0,66 kW	0,29 kW	0,29 kW	0,29 kW	0,29 kW	0,54 kW
230 / 1 / 50 Hz EC	0,11 kW	0,37 kW	0,37 kW	0,37 kW	0,37 kW	0,37 kW
Weight including filter	22 kg	24 kg	31 kg	31 kg	47 kg	59 kg

- Other sizes upon request
- Height excl. handles (adds +40 mm to FFU height) and prefilter section (adds +105 mm to FFU height)
Option: low height units can be supplied.



AAF-International B.V.
P.O. Box 7928
1008 AC Amsterdam
The Netherlands
Tel.: + 31 20 549 44 11
Fax: + 31 20 644 43 98
www.aafeurope.com

International AAF Offices:
Amsterdam (NL), Athens (GR), Brussels (B),
Cramlington (GB), Dortmund (D), Dubai
(UAE), Helsinki (Fin), Istanbul (TR), Lisbon
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