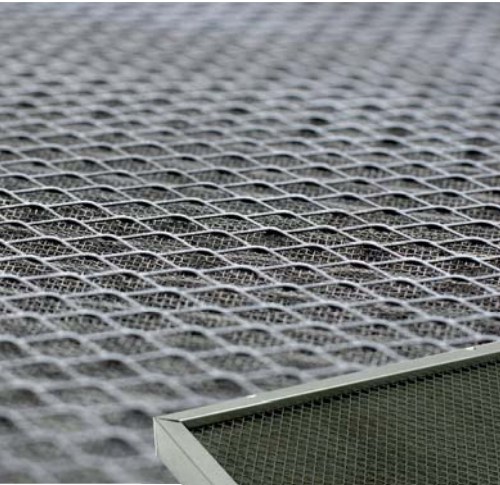


Aluminum Mesh & Baffle

Primary or Pre-Filters Grease Filters



General Characteristics

Aluminium or Stainless Steel Mesh and Baffle Filters are used as primary or pre-filters in Fan Coil Units (FCU), Air Handling Units (AHU) or Fresh Air Fans (FAF) in both new or existing air filtration system. They are widely used as pre-filtration for Grease/ Oil Mist applications such as kitchen hoods, also known as grease filters. The all-metal design mesh or baffle filters are non-flammable and can be classified as Class 1 Filters. They can also be washed in mild detergent solutions.



Corrugated Mesh ensures greater surface for higher dust or grease removal efficiencies

+ Washable Pre-filters with G1–G2 Grade

+ Al Mesh, US Al Mesh, SS Mesh

+ Corrosion-resistant mesh

+ Galvanised Steel (Gi), Aluminium (Al),
Stainless Steel SS304 Frame

+ Grease, Oil, Water Mist Pre-filtration Removal



US Al Mesh are used as pre-filters in electronic filters, refrigerators, heat generative equipment

Construction

Al Mesh, US Al Mesh, SS Mesh

Al Mesh Filters provide an efficient, economical and convenient way to reduce grease deposits and maintain kitchen sanitation. The multi-layered corrugated mesh netting ensures greater media area to the grease-laden air for high capture of the grease or oil mist. These all-metal design filters are easy to install and fully washable. They can trap up to 98% of grease and other foreign particles and also capture water mist from cooling coils. Stainless steel mesh filter is suitable for corrosive environment and heavy duty usage. Optional handles or drain holes can be installed for easier removal for maintenance in kitchens or equipment.

Baffle

Aluminum or Stainless Steel Baffle filters have high effective flame arrestor capabilities and effective grease removal efficiency up to 92% at 1.7 m/s face velocity. They are suitable for sand removal, heavy dust separation and kitchen hood applications. The unique steel channel also acts as handles for removal from kitchen hoods for cleaning. Optional handles or drip holes can be installed for easier removal for maintenance in kitchens or equipment.



Baffle Filter Design condenses grease vapours and allows grease run-off and collection of oil. Suitable for sand and heavy dust separation

Aluminum Mesh & Baffle

Primary or Pre-Filters Grease Filters

Specifications

Model	Mesh AI	Mesh US AI 1	Mesh AI	Baffle
Description	AI Mesh 1"	US AI Mesh 1"	AI Mesh 2"	Baffle
Nominal Thickness	1"	1"	2"	2"
Initial Pressure Drop at 1.7m/s	12	18	18	15
Initial Pressure Drop at 2.5m/s	19	32	32	26
Filter Class EN779 / Eurovent 4/ 4	G1 / EU1	G2 / G2	G2 / G2	N.A

For general heating, ventilation and dust collection

ASHRAE 52.1-1992 Average Synthetic Dust Weight Arrestance	60%	70%	65%	N.A
ASHRAE 52.1-1992 Average Atmospheric Dust Spot Efficiency	<20%	<20%	<20%	N.A
ASHRAE 52.2-2007 Minimum Efficiency Reporting Value (MERV)	MERV 1	MERV 2	MERV 2	N.A

For Grease or Oil Mist Eliminator Applications

Grease Removal Efficiency at 1.7m/s	92%	98%	95%	90%
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Performance data is based on ASHRAE 52.1-1992 test method entitled "Gravimetric and Dust-Spot Procedures for Testing Air-Cleaning Devices Used in General Ventilation for Removing Particulate Matter", data provided is for comparison and information
NA : Not suitable to use

Technical Data

AI Mesh/ US AI Mesh / SS Mesh Filter

Filter Media

AI Mesh/ AI US Mesh & Expanded AI Mesh
SS304 Mesh & SS304 Welded Mesh,

Enclosing Frame

Aluminium/ Stainless Steel 304

Options

Handles, Drain Holes

Baffle Filter

Frame Channel

Al, SS304

Enclosing Frame

Aluminium/ Stainless Steel 304

Options

Handles, Drain Holes

Continuous Operating Temperature	170-250°C
Relative Humidity	90%
Recommended Final Pressure Drop	70 Pa
Maximum Final Pressure Drop	120 Pa
Flammability	Non-flammable

Dimensions

Nominal Size L x W x D	Actual Size L x W x D	Rated Air Flow m ³ /h at		Mesh Filters Initial Pressure Drop Pa		Baffle Filters Initial Pressure Drop Pa	
		1.7 m/s	2.5 m/s	1.7 m/s	2.5 m/s	1.7 m/s	2.5 m/s
12 x 24 x 1	289 x 595 x 21	1200	1700	12	19	N.A	N.A
16 x 20 x 1	395 x 495 x 21	1320	1880				
16 x 25 x 1	395 x 622 x 21	1680	2380				
20 x 20 x 1	495 x 495 x 21	1680	2380				
20 x 25 x 1	495 x 622 x 21	2100	2975				
24 x 24 x 1	595 x 595 x 21	2400	3400				
12 x 24 x 2	289 x 595 x 45	1200	1700	18	32	15	26
16 x 20 x 2	395 x 495 x 45	1320	1880				
16 x 25 x 2	395 x 622 x 45	1680	2380				
20 x 20 x 2	495 x 495 x 45	1680	2380				
20 x 25 x 2	495 x 622 x 45	2100	2975				
24 x 24 x 2	595 x 595 x 45	2400	3400				

Other sizes can be custom fabricated accordingly.

Width and height dimensions are interchangeable except Baffle Filters. Filters may be installed horizontally or vertically

