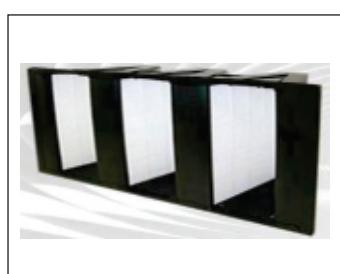




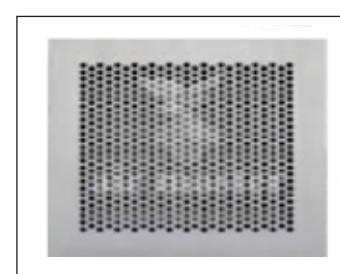
# Ultrafil Air Systems (I) Pvt. Ltd.

*First in clean air...*

## Air Filters For Commercial, Industrial & Clean Room Applications



- Pre fine/Superfine Filter
- Combination Filter
- Pocket / Bag Filter
- Activated Carbon Filter
- Metallic Filter
- FFU (Fan Filter Unit) Filter
- HEPA Filter (Deep Pleat & Mini Pleat)
- High Temp. Hepa Filter
- V-Bank Filter
- Gel Seal Filter
- Hooded Filter
- Cylindrical Filters
- Filter Modules & Grills
- Dust Collector
- Paint Booth Filter



## Our Mission & Vision

### Vision

Pioneers in providing sustainable and customized solutions in all types of Air filters, Clean Room Equipment's and relevant products which are more customer centric.

### Mission

To provide superior customized solutions with minimal TAT to our esteemed clientele.

## About us :

Ultrafil was established in the year 2006 as a manufacturing unit at Hyderabad, Telangana (India). Our strict adherence to stringent quality management system & clients' preferences have enabled us to establish ourselves as one of the most reputed manufacturers of Clean Room Air Filters. We are highly applauded among our clients for our Precision Filters, reasonable rates & on time deliveries of consignments. There are wide ranges of Clean Room Filters offered by us.

Ultrafil is equipped with a whole new generation of Managers & Technicians highly trained to deliver turnkey solutions for different applications conforming to all the guidelines. The Infrastructure is packed with a state of art manufacturing facility equipped with modern automated machines which are always ready for engineering challenges of the ever changing stringent standards.

Ultrafil with its skilled engineering team offers viable & integrated turnkey solutions to suit the desired requirement of the projects. Ultrafil understands the value & purpose of your capital investments, stand apart with its value added approach & customized solutions as per the requirement.

Ultrafil is growing steadily each year & expanding across different verticals far & wide. The zeal to deliver on time giving utmost importance to quality, safety, environmental & compliance policy. Ultrafil stands firm on its commitment to deliver impeccable project execution time. Maintaining undeviating quality standards has won repeated orders from its esteemed clients.

Ultrafil thanks all its Clients for keeping their faith in us.

### CORE STRENGTH:

- **STRONG EXPERIENCED TEAM**
- **DETAILED ENGINEERING**
- **QUALITY PRODUCTS ON TIME DELIVERY**
- **CUSTOMER FOCUS**
- **WORK EFFICIENCY**

## Classification of Air Filters :

Air filter classification is regulated by a series of very strict standards that specifically define the features of the filters according to the relevant efficiency class & use. The designer & the installation technician must know all these standards to be able to propose the filter that best meets the project requirements. Below, are the main standards used today with a series of table indicating the efficiency class of each filter. Before starting, we want to remind you that the Air Filters considered by the standards belong to three main groups:

- Coarse / Pre
- Fine
- HEPA
- ULPA

### ● EN 779 standard

This standard derives from revision of former EN 779. It aims at determining the arrestance of coarse filters with synthetic dust by using a gravimetric method & the efficiency of fine filters by using a particle counter method. The standard has a double classification system that uses letters & numbers G and F, respectively for coarse & fine filters, followed by numbers from 1 to 9.

### ● EN 1822 standard

The most up-to date standard concerning HEPA & ULPA air filters is EN 1822. The new standards are composed of 5 parts, each dealing with one specific subjects which is described in details. It was stated that any single filtering media has point of maximum penetration according to a specific particle size.

## Filter quick selection guide :

Type of Filters	Class			Efficiency
	Grade	EU Classification	MERV Rating	
<b>Course Filters (G-Category) Test-ed as per EN 779, ASHRAE 52.2</b>	<b>G1</b>	<b>EU-1</b>	<b>MERV-1</b>	<b>50% @ 50 MIC</b>
	<b>G2</b>	<b>EU-2</b>	<b>MERV-2-4</b>	<b>80% @ 40 MIC</b>
	<b>G3</b>	<b>EU-3</b>	<b>MERV-5-6</b>	<b>85% @ 20 MIC</b>
	<b>G4</b>	<b>EU-4</b>	<b>MERV-7-8</b>	<b>90% @ 10 MIC</b>
<b>Medium Dust Filters Tested as per EN 779, ASHRAE 52.2</b>	<b>F5</b>	<b>EU-5</b>	<b>MERV-9-10</b>	<b>95% @ 5 MIC</b>
	<b>F6</b>	<b>EU-6</b>	<b>MERV-11-12</b>	<b>99% @ 5 MIC</b>
<b>Fine Dust Filters Tested as per EN 779, ASHRAE 52.2</b>	<b>F7</b>	<b>EU-7</b>	<b>MERV-13</b>	<b>99% @ 3 MIC</b>
	<b>F8</b>	<b>EU-8</b>	<b>MERV-14</b>	<b>99% @ 2 MIC</b>
	<b>F9</b>	<b>EU-9</b>	<b>MERV-15</b>	<b>50% @ 0.3 MIC</b>
<b>HEPA Filters Tested as per EN 1822, ASHRAE 52.2</b>	<b>H10</b>	<b>EU-10</b>	<b>MERV-16</b>	<b>85% @ 0.3 MIC</b>
	<b>H11</b>	<b>EU-11</b>	<b>MERV-17</b>	<b>95% @ 0.3 MIC</b>
	<b>H12</b>	<b>EU-12</b>	<b>MERV-18</b>	<b>99% @ 0.3 MIC</b>
	<b>H13</b>	<b>EU-13</b>	<b>MERV-19</b>	<b>99.97% @ 0.3 MIC</b>
	<b>H14</b>	<b>EU-14</b>	<b>MERV-20</b>	<b>99.99% @ 0.3 MIC</b>
<b>ULPA Filter EN 1822, ASHRAE 52.2</b>	<b>E15</b>	<b>U-15</b>	<b>N/A</b>	<b>99.999% @ 0.3 MIC</b>

- MERV : Minimum Efficiency Reporting Value ● HEPA : High Efficiency Particulate Air
- ULPA : Ultra Low Penetrating Air
- MPPS : Most Penetrating Particle Size

## Pre Fine & Superfine Filter



<b>Frame</b>	: Anodized Aluminium./GIPC/Stainless steel Material
<b>Adhesive</b>	: Epoxy based adhesive for leak proof joint between filter media and casing.
<b>Gasket</b>	: Felt /Natural Rubber / PE foam gasket as per customers choice for sealing the filters on mounting frame
<b>Media</b>	: Non woven synthetic
<b>Grade/Type</b>	: G3 to F9 / Box & Flange
<b>Temperature</b>	: Recommended for operating on ambient temperature.
<b>Cleaning</b>	: Washable by detergent / Water solution or by Air / Vacuum cleaner as per design.
<b>Product Range</b>	: Filter are available with air handling capacity in the range of 100 CFM to 2000 CFM
<b>Application</b>	: For HVAC and Clean room applications

## HEPA Deep Pleat Filter



<b>Frame</b>	: Anodized Aluminium /GIPC/Stainless Steel
<b>Adhesive</b>	: Epoxy based adhesive for leak proof joint between filter media and casing.
<b>Gasket</b>	: Sponge rubber / Polyurethane Neoprene gasket provided for sealing of filter on mounting frame
<b>Media</b>	: Micro glass fibre
<b>Grade</b>	: H10 to H14 / Box & Flange
<b>Temperature</b>	: Recommended for operating temperature upto Ambient to 150°C.
<b>Cleaning</b>	: Non-Washable
<b>Product Range</b>	: Filter are available with air handling capacity in the of range 100 CFM to 2000 CFM
<b>Application</b>	: For HVAC and Clean room applications

## High Temp. HEPA Filter



<b>Frame</b>	: Stainless Steel
<b>Adhesive</b>	: Silicon based adhesive for leak proof joint between filter media and casing.
<b>Gasket</b>	: High temp. gasket.
<b>Media</b>	: Micro glass fibre High Temp.
<b>Grade/ Type</b>	: H10 to H14/ Box & Flange
<b>Temperature</b>	: 100°C to 400°C.
<b>Cleaning</b>	: Non-Washable
<b>Product Range</b>	: Filter are available with air handling capacity in the range of 100 CFM to 2000 CFM
<b>Application</b>	: For Pharmaceuticals, Dry heat sterilized tunnels.

## HEPA Minifleat Filter



<b>Frame</b>	: Anodized Aluminum/GIPC/Stainless Steel
<b>Adhesive</b>	: Epoxy based adhesive for leak proof joint between filter media and casing.
<b>Gasket</b>	: Sponge rubber / Polyurethane Neoprene gasket provided for sealing of filter on its mounting frame
<b>Media</b>	: Micro glass fibre
<b>Grade/Type</b>	: F7 to U15/ Box & Flange
<b>Temperature</b>	: Recommended for operating on ambient temperature.
<b>Cleaning</b>	: Non-Washable
<b>Product Range</b>	: Filter are available with air handling capacity in the range of 100 CFM to 2000 CFM
<b>Application</b>	: For HVAC and Clean room applications

## V-Bank Filter



<b>Frame</b>	: Anodised Aluminium /Polystrene plastic.
<b>Adhesive</b>	: Epoxy based adhesive for leak proof joint between filter media and casing.
<b>Gasket</b>	: Sponge rubber / Polyurethane Neoprene gasket provided for sealing of filter on mounting frame
<b>Media</b>	: Micro glass fibre
<b>Grade/ Type</b>	: F7 to H14/ Box & Flange
<b>Temperature</b>	: Recommended for operating on ambient temperature.
<b>Cleaning</b>	: Non-Washable
<b>Product Range</b>	: Filter are available with air handling capacity in the range of 100 CFM to 2000 CFM
<b>Application</b>	: For HVAC and Clean room applications

## Gel Seal Minifleat HEPA Filter



<b>Frame</b>	: Anodised Aluminium / GIPC / Stainless Steel
<b>Adhesive</b>	: Epoxy based adhesive for leak proof joint between filter media and casing.
<b>Gel Used</b>	: A standard Silicon gel.
<b>Media</b>	: Micro glass fibre.
<b>Grade</b>	: F7 to H14
<b>Temperature</b>	: Recommended for operating on ambient temperature.
<b>Cleaning</b>	: Non-Washable
<b>Product Range</b>	: Filter are available with air handling capacity in the range of 100 CFM to 2000 CFM
<b>Application</b>	: For HVAC and Clean room applications

## Fan Filter Units



<b>Frame Material</b>	: Anodized Aluminum & Stainless Steel used for housing of filter.
<b>Blower</b>	: Electric motor, single phase, 240volts, 50 HZ.Backward curved centrifugal type.
<b>Grade</b>	: F9 to H15
<b>Supply filter</b>	: MOC- Aluminum, Grade- F9 to H15
<b>Power supply</b>	: ON/OFF switch with regulator is provided to regulate speed
<b>Noise levels</b>	: < 68 Db

## Hooded Air Filter



**Frame Material :** Anodized Aluminum ,GI (Powder coated) & Stainless Steel.

**Mode Of Assembly:** Hooded type ( HEPA /ULPA)

**Major parameters involved :**

STD Dia of collar	STD Height of collar	Perforation Dia	Hole Dia
Ø200mm	80mm To 100mm	Ø190mm	~Ø10mm -Ø15mm
Ø250mm		Ø240mm	
Ø300mm		Ø290mm	
Ø350mm		Ø340mm	

**Filter Grading (Minipleat):** F7 to H14 & EU-15

**Thermal Stability:** Recommended for operating Temperature of 60°C

**Construction:** Construction: Our Hooded filters are designed for optimum filter performance with an individually flexible ducting system for used for clean rooms.

The disposable ceiling module is hermetically sealed to prevent the leakages in clean rooms.

## Pocket Filter



<b>Frame</b>	: Aluminum/GIPC/Stainless Steel
<b>Adhesive</b>	: Epoxy based adhesive for leak proof joint between filter media and casing.
<b>Gasket</b>	: Felt /Natural Rubber /PE foam gasket as per customers choice for sealing the filters on mounting frame
<b>Media</b>	: Non woven synthetic / Glass Fibre
<b>Grade/Type</b>	: G3 to F9 / Box & Falange
<b>Temperature</b>	: Recommended for operating on ambient temperature.
<b>Cleaning</b>	: Washable by detergent / Water solution or by Air / vacuum cleaner as per design.
<b>Product Range</b>	: Filter are available with air handling capacity in the range of 100 CFM to 2000 CFM
<b>Application</b>	: For HVAC and Clean room applications

## Activated Carbon Filter



<b>Frame</b>	: Anodised Aluminium/GIPC/Stainless steel
<b>Adhesive</b>	: Epoxy based adhesive for leak proof joint between filter media and casing.
<b>Gasket</b>	: Natural Rubber / PE foam gasket.
<b>Media</b>	: High Loft Carbon GSM
<b>Grade /Type</b>	: G3 to F9 / Box & Flange
<b>Temperature</b>	: Recommended for operating on ambient temperature.
<b>Cleaning</b>	: Washable by detergent / Water solution or by Air / vacuum cleaner as per design.
<b>Product Range</b>	: Filter are available with air handling capacity in the Range of 100 CFM to 2000 CFM
<b>Application</b>	: For HVAC and Clean room applications

## Filter Module & Grill



<b>Frame</b>	: Anodized Aluminum /GIPC/Stainless steel
<b>Duct connection:</b>	Rectangular connection, square and circular.
<b>Air Entry</b>	: Side & Top
<b>Housing type</b>	: Box type & Flange type with DOP & PAO port with bottom control damper.
<b>Grill Moc</b>	: Stainless steel
<b>Standard Grill size</b>	: 720x720, 720x415 etc.
<b>Standard Housing size</b>	: 680x680, 680x375 etc.
<b>Application</b>	: For HVAC and Clean room applications

## Bag Filter & Dust Collection System



<b>Frame</b>	: Aluminum/ GIPC / Stainless Steel
<b>Capacity</b>	: 1000 CFM to 15000 CFM
<b>Media</b>	: Polyester PTFE, Non-Woven, Needle Felts.
<b>Features</b>	: High performance, Low maintenance required,
<b>Application</b>	: Cement, Power, Process industries CNC Machining, Grinding, Turning Milling, Drilling, Material handling, etc.

## Paint Booth Filter



<b>Frame</b>	: Aluminum./GIPC/Card board/Polystyrene plastic.
<b>Ceiling Media</b>	: Polyester non-woven fabric.
<b>Floor Media</b>	: Micro glass Fibre
<b>Grade</b>	: G3-for floor filter & F5 for ceiling filter- Type Box/Flange
<b>Cleaning</b>	: Washable / Water solution or by Air / Vacuum cleaner as per design
<b>Temperature</b>	: 100*C to 120*C
<b>Application</b>	: In paint booth.

## Cylindrical Air Filters



<b>Frame</b>	: Galvanized steel, Stainless steel or Aluminum plate in perforated or expanded sheet.
<b>Adhesive</b>	: Epoxy based adhesive for leak proof joint between filter media and casing.
<b>Gasket</b>	: Sponge rubber/ Polyurethane Neoprene gasket provided for sealing of filter on its mounting frame
<b>Media</b>	: Non woven synthetic , micro glass fibre .
<b>Grade</b>	: G4 to H14
<b>Temperature</b>	: Recommended for operating temperature upto Ambient. Operating humidity up to 100% RH.
<b>Cleaning</b>	: Washable & Non-Washable
<b>Product Range</b>	: Filter are available with air handling capacity in the 100 CFM to 2000 CFM
<b>Application</b>	: For HVAC and Clean room applications

## Bag in Bag out Filter Systems



**Housing Material of Construction :** GI (Powder coated), Stainless steel.

**Filter Material of construction :** Anodized Aluminium, GI (powder coated) Stainless steel.

**Filters used** : PRE-FILTER HEPA or ULPA filter

**Construction:** Ultrafil make Bag in Bag Out Filter System provide a wide performance for preventing the workers from bio-hazard organisms and viruses while they are doing the regular HEPA or ULPA filter replacement work. It is the most effective equipment available for any zone, needing a special critical filtration cleanliness level and negative pressure environment. The equipment is full welded with argon welding except maintenance access door. Magnehelic gauge becomes standard for pre-filter, and ULPA or HEPA filter. The basic housing is designed with respect to filter sizes. BIBO system include high-capacity HEPA filters for service up to 2000 CFM.



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