ALI AIR FILTER

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www.aliairfilters.com
Karachi, Pakistan

AAF
ALI AIR FILTER

COMPANY INFO

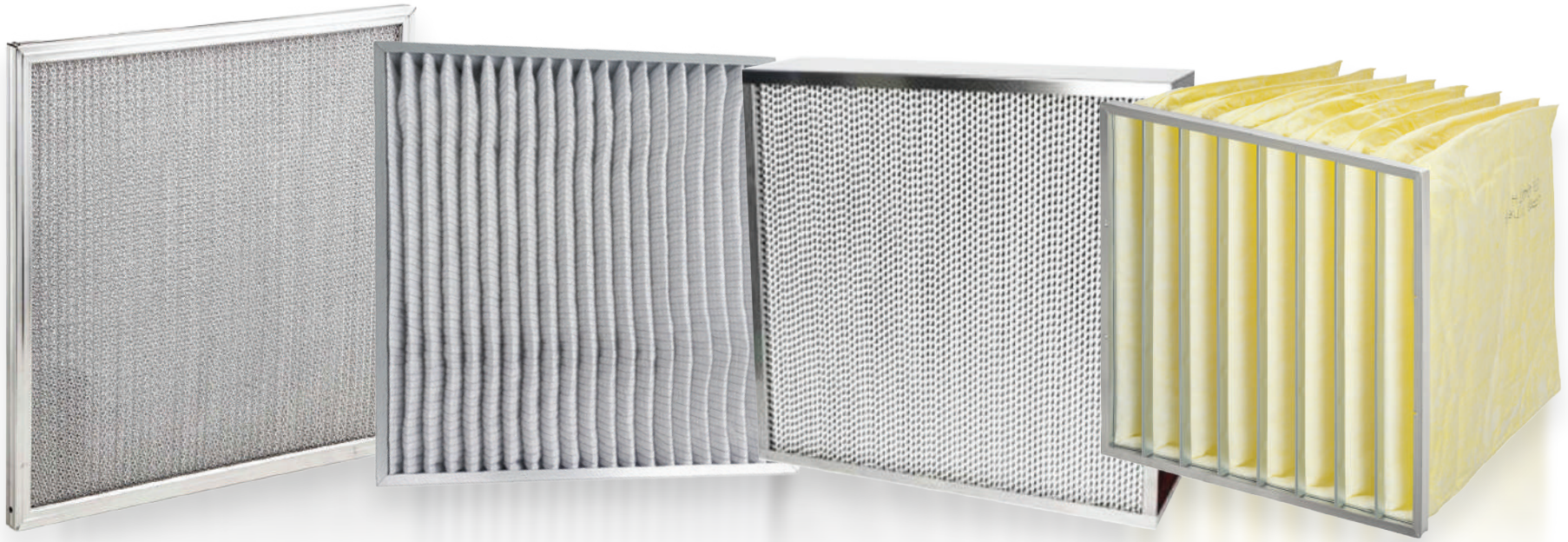
We are a Pakistan-based company with over 20 years of experience in providing all types of HVAC air filters. With fast delivery, affordable pricing, and customer-focused service, we proudly serve both homes and commercial spaces across the country. Led by CEO Asifa Khalid, our mission is to deliver exactly what our clients need—without compromise.

ABOUT US

We are a Pakistan-based company with over 20 years of experience in providing every kind of HVAC and air filtration solution. Operating from Karachi and delivering to all major cities, we take pride in offering high-quality filters at affordable prices with fast delivery. What sets us apart is our commitment to fulfill exactly what our clients need—whether it's a specific filter or a custom requirement, we make it happen.

Our customer base includes both residential and commercial clients, including hospitals, malls, offices, and more. Our mission is simple: to provide top-quality products that meet the expectations of every customer. We also offer responsive WhatsApp support, not only for filter-related queries but also to assist customers looking for related products or guidance in the air filtration market.

With deep roots and years of trusted service, we're here to make sure you breathe clean, safe air—no matter your space or scale.
Asifa Khalid, CEO



Our Vision

Our mission is to consistently supply a comprehensive range of high-quality HVAC filters, including HEPA, G3, G4, F7, F8, and F9, and many more HVAC Filters. Providing reliable service to meet the diverse air filtration needs of our clients.

Our Mission

To empower every home and business with superior air quality, creating comfortable, safe, and productive spaces through advanced filtration.

CATALOG

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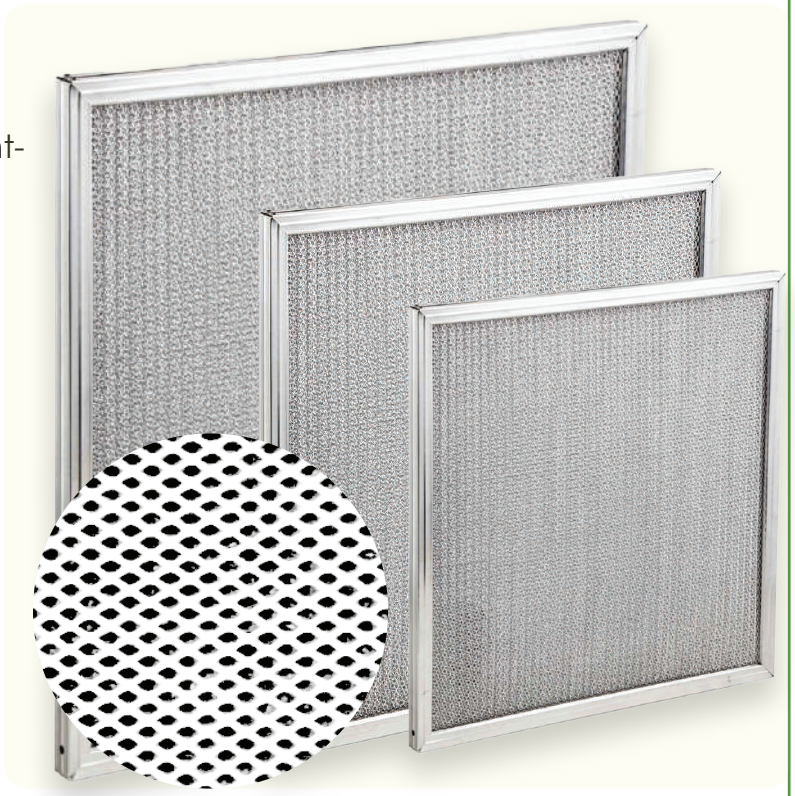
G3 / MESH FILTER / ALUMINUM FILTER

Key Features & Benefits

Durable Construction: Manufactured with high-quality aluminum frames and multiple layers of aluminum mesh, ensuring longevity and resistance to corrosion
Effective Pre-Filtration: Specifically designed to trap larger dust particles, lint, grease, and other airborne contaminants, protecting downstream filters and equipment
Washable & Reusable: Easily cleaned with water, allowing for multiple uses and significantly reducing replacement costs and environmental impact
Low Pressure Drop: Engineered to offer minimal resistance to airflow, ensuring optimal system performance and energy efficiency
Versatile Applications: Ideal for a wide range of residential, commercial, and industrial settings
Standard G3 Filtration Class: Meets the G3 filtration standard, providing reliable performance for coarse particle removal



Typical Applications

1. HVAC Systems: Used as pre-filters in air conditioning and ventilation systems to extend the life of finer filters
2. Kitchen Hoods & Exhaust Systems: Excellent for capturing grease and cooking fumes
3. Industrial Ventilation: Suitable for workshops, factories, and other environments with high levels of coarse dust
4. Commercial Buildings: Offices, retail spaces, and public buildings requiring basic air filtration
5. Residential Homes: As a durable and washable option for home HVAC units

Specifications

Nominal Size (inches)	Average Arrestance	Air Velocity (m/s)	Rated Air Flow (m^3/h)	Initial Pressure Drop (Pa)
24 × 24	≥ 90%	1.5 – 2.5	3600 – 4000	45 – 60
24 × 24	≥ 90%	1.5 – 2.5	3000 – 3400	45 – 60
12 x 24	≥ 90%	1.5 – 2.5	1800 – 2000	45 – 60

Custom sizes available.

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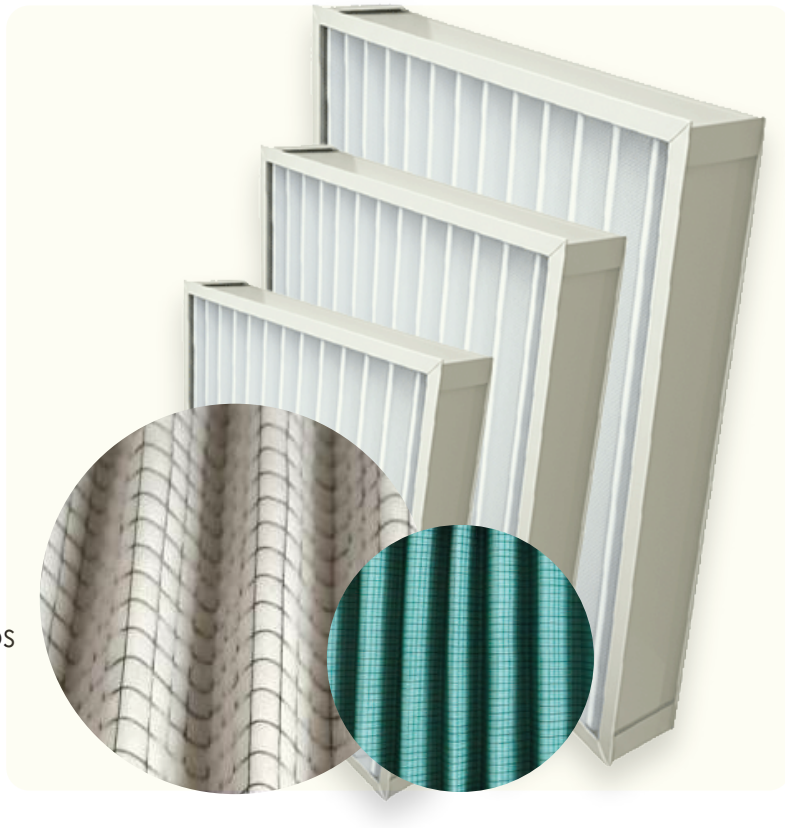
G4 / SYNTHETIC PLEATED FILTER / MULTI-V

Key Features & Benefits

Efficiency: G4 rating ~35–60% – EN779 compliant (approx. 90% arrestance for ≥10µm particles)
Media: High-loft synthetic fiber with progressive density
Low Resistance: Optimized for energy-saving airflow
Moisture Resistant: Performs well in humid environments
Long Service Life: High dust-holding capacity reduces replacement frequency



Typical Applications

1. **HVAC Systems:** HVAC systems in residential and commercial buildings
2. **Pre-Filtration:** Pre-filtration in multi-stage systems
3. **Cleanroom Entry Filtration:** Cleanroom pre-filters
4. **Industrial Ventilation:** Effective in factories and workshops to control dust levels and protect ventilation equipment
5. **Air Handling Units (AHUs):** Air handling units (AHUs)
6. **Spray Booths:** Used in spray booths to maintain consistent airflow and protect paint jobs from airborne particles

Specifications

Nominal Size (inches)	Average Arrestance	Air Velocity (m/s)	Rated Air Flow (m^3/h)	Initial Pressure Drop (Pa)
24 × 24	≥ 90%	1.5 – 2.5	3600 – 4000	45 – 60
24 × 20	≥ 90%	1.5 – 2.5	3000 – 3400	45 – 60
24 × 12	≥ 90%	1.5 – 2.5	1800 – 2000	45 – 60

Custom sizes available.

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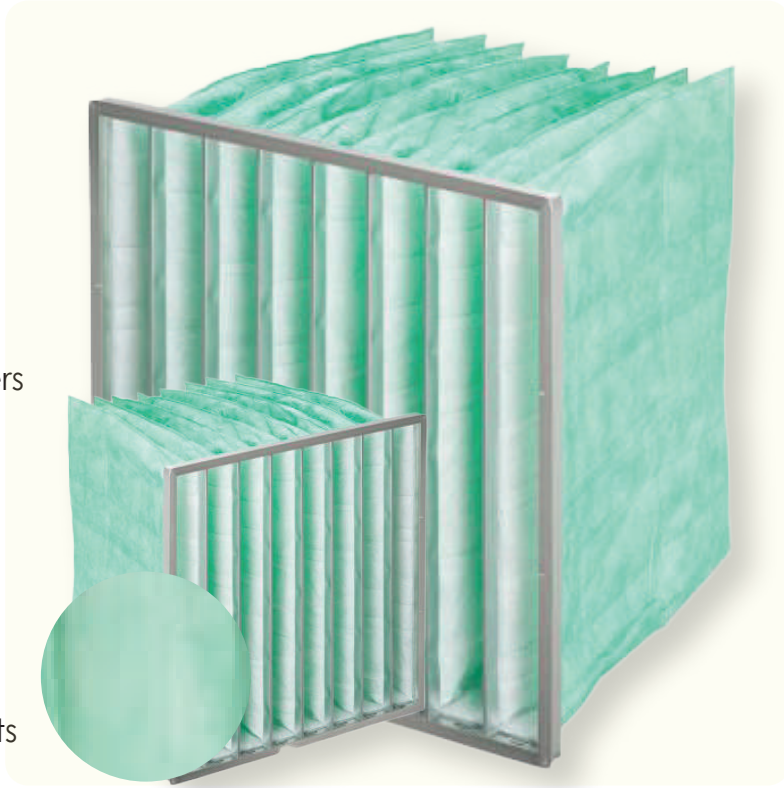
BAG FILTER / POCKET FILTER 65% (GREEN)

Key Features & Benefits

Medium Efficiency: Ideal for capturing medium-to-large airborne particles
Synthetic Multi-Layer Media: Provides progressive filtration with high dust loading
Rigid Pocket Design: Prevents collapse under high airflow or turbulence
Low Resistance: Ensures consistent airflow with reduced energy consumption
Moisture Resistant: Operates effectively in high humidity environments
Durable Frame Options: Available in galvanized steel, aluminum



Color Code / Identification

Bag filters with 65% efficiency are typically identified by green media. This color coding helps in quick visual identification and prevents mixing with higher or lower efficiency filters like pink (85%) or yellow (95%).

Typical Applications

1. **HVAC Pre-Filtration:** Used as a pre-filter in systems requiring multi-stage filtration
2. **Air Handling Units (AHUs):** Installed for general protection in commercial setups
3. **Cleanrooms and Labs:** Helps reduce particulate load before HEPA filters
4. **Educational & Office Buildings:** Improves indoor air quality in shared environments
5. **Shopping Malls & Airports:** Maintains efficient airflow and protects sensitive components
6. **Manufacturing Plants:** Traps dust and fibers in textile or woodworking industries
7. **Food Processing:** Controls airborne contaminants in dry processing areas

Specifications

Nominal Size (mm)	Filter Object	Color	Rated Air Flow (m^3/h)	Initial Pressure Drop (Pa)
592 x 592 x 600 (8P)	≥ 0.4	Light Green	2200 - 3400	55 – 80
592 x 592 x 600 (6P)	≥ 0.4	Light Green	2200 - 3400	65 – 85
287 x 592 x 600 (4P)	≥ 0.4	Light Green	1100 - 1700	65 – 85

Custom sizes available.

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BAG FILTER / POCKET FILTER 85% (PINK)

Key Features & Benefits

High Dust Holding Capacity: Extended surface area allows for longer life and fewer replacements
Stable Construction: Leak-free pockets stitched or welded to prevent bypass and sagging
Progressive Synthetic Media: Traps coarse and fine particles efficiently
Low Initial Resistance: Maintains airflow while capturing high dust loads
Energy Efficient: Designed for lower energy consumption over time
Moisture & Chemical Resistant: Ideal for harsh or humid environments
Flexible Pocket Depth Options: Available in multiple pocket depths (e.g., 15", 20", 25")

Color Code / Identification

Bag filters with 85% efficiency are typically identified by pink media. This color coding helps in quick visual identification and prevents mixing with higher or lower efficiency filters like green (65%) or yellow (95%).

Typical Applications

1. **Commercial HVAC Systems:** Used in malls, offices, and hospitals to maintain indoor air quality
2. **Industrial Ventilation:** Protects machinery and ensures clean air in production areas
3. **Food & Beverage Industry:** Filters out airborne contaminants in hygienic environments
4. **Pharmaceutical Manufacturing:** Provides clean air in controlled environments
5. **Air Handling Units (AHUs):** Commonly installed as secondary filters after pre-filtration
Paint Booths & Cleanrooms: Reduces particle load to maintain cleanliness and finish quality
6. **Educational Institutions:** Helps provide healthy air circulation in schools and universities

Specifications

Nominal Size (mm)	Filter Object	Color	Rated Air Flow (m^3/h)	Initial Pressure Drop (Pa)
592 x 592 x 600 (8P)	≥ 0.4	Light Pink	2200 - 3400	55 – 80
592 x 592 x 600 (6P)	≥ 0.4	Light Pink	2200 - 3400	65 – 85
287 x 592 x 600 (4P)	≥ 0.4	Light Pink	1100 - 1700	65 – 85

Custom sizes available.

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BAG FILTER / POCKET FILTER 95% (PINK)

Key Features & Benefits

High Dust Holding Capacity: Extended surface area allows for longer life and fewer replacements
Stable Construction: Leak-free pockets stitched or welded to prevent bypass and sagging
Progressive Synthetic Media: Traps coarse and fine particles efficiently
Low Initial Resistance: Maintains airflow while capturing high dust loads
Energy Efficient: Designed for lower energy consumption over time
Moisture & Chemical Resistant: Ideal for harsh or humid environments
Flexible Pocket Depth Options: Available in multiple pocket depths (e.g., 15", 20", 25")

Color Code / Identification

Bag filters with 95% efficiency are typically identified by yellow media. This color coding helps in quick visual identification and prevents mixing with higher or lower efficiency filters like pink (85%) or green (65%).

Typical Applications

1. **HVAC Systems in Commercial Buildings:** For clean air circulation and comfort
2. **Pharmaceutical Industries:** To maintain sterile air environments
3. **Food Processing Units:** To control contamination from airborne particles
4. **Electronics & Semiconductor Manufacturing:** Where fine particulate control is crucial
5. **Hospitals & Clinics:** For hygiene-sensitive areas and patient safety
6. **Paint Booths:** To prevent dust and particles from affecting finishes

Specifications

Nominal Size (mm)	Filter Object	Color	Rated Air Flow (m^3/h)	Initial Pressure Drop (Pa)
592 x 592 x 600 (8P)	≥ 0.4	Light Yellow	2200 - 3400	55 – 80
592 x 592 x 600 (6P)	≥ 0.4	Light Yellow	2200 - 3400	65 – 85
287 x 592 x 600 (4P)	≥ 0.4	Light Yellow	1100 - 1700	65 – 85

Custom sizes available.

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G4 SYNTHETIC PLANE FILTER

Key Features & Benefits

Filtration Class: G4 (EN 779): Effective for capturing large particles like dust, lint, and pollen.
High Dust-Holding Capacity: Longer service life and reduced maintenance intervals.
Rigid Construction: Typically framed in galvanized steel, aluminum, or plastic for durable performance.
Synthetic Media: Thermally bonded polyester or non-woven synthetic fiber ensures consistent airflow and filtration.
Washable & Reusable (Optional): Reduces replacement frequency in less demanding applications.
Low Initial Pressure Drop: Minimizes energy consumption and enhances airflow efficiency.

How It Works

1. Air enters the filter from the front (intake side).
2. Coarse dust and particles are trapped in the synthetic media layer.
3. Clean air passes through, ensuring basic protection for equipment and maintaining indoor air quality.
4. Acts as a first-stage filter, protecting more expensive secondary or HEPA filters.

Typical Applications

1. **Commercial HVAC Systems:** In office buildings, shopping malls, and airports.
2. **Industrial Ventilation:** For protecting machines and workers in dusty environments.
3. **Pre-Filtration:** Ahead of fine filters, bag filters, or HEPA units.
4. **Cleanrooms (as pre-filter):** To extend the life of HEPA filters.
5. **Spray Booths:** For intake air filtration.

Specifications

Media Type: Non-woven synthetic fibers
Average Arrestance (EN 779:2012): Up to 90% (G4)
Operating Temperature: Up to 60°C
Humidity Resistance: Up to 90% RH (non-condensing)
Final Pressure Drop Recommendation: 250 Pa
Custom sizes available.

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FLUID BED DRYER FILTER (F.B.D)

Key Features & Benefits

Shape: Cylindrical filter bags, stitched into a plate
Material: Antistatic, food-grade fabric like polyester or polypropylene
Mesh Size: Fine filtration to retain powder and liquid but allow air to pass through
Top Plate: Usually plastic or metal, fits into the drying machine
Design: Multiple bags stitched together — usually 12, 14, 16, or more per plate

How It Works in a Fluid Bed Dryer

1. Hot air is pushed from the bottom of the dryer to dry wet granules or powders
2. The filter bags are installed at the top to trap fine particles and allow only clean air to escape
3. Prevents product loss and maintains hygiene standards
4. Some filters include shaking or pulsing mechanisms to knock off powder build-up

Typical Applications

1. Pharmaceutical granulation drying
2. Powder drying in food processing
3. Chemical granule drying

Available Filter Media

Polyester (Antistatic / Non-Antistatic)
Polypropylene
Nylon Mesh
Non-Woven Felt

Sizes

Custom sizes available.

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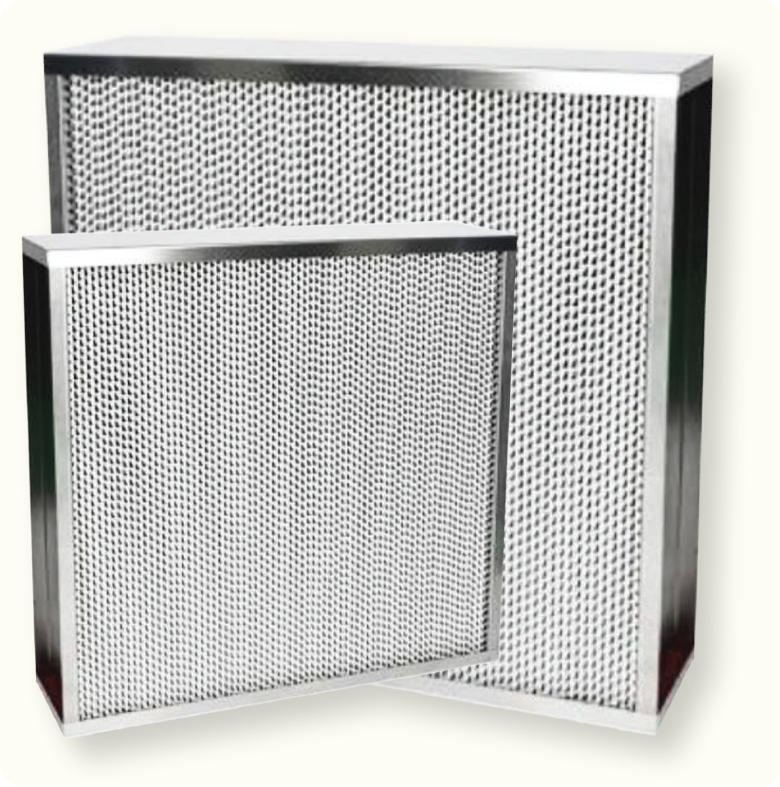
HEPA FILTER (H13) (SEPARATOR) [IMPORTED]

Key Features & Benefits

HEPA Grade H13 (EN 1822:2009): Captures 99.95% of particles ≥0.3 microns
Deep Pleated Design: Maximizes surface area for higher dust-holding capacity and airflow efficiency
Glass Microfiber Media: Ensures consistent high-efficiency filtration
Leak-Free Construction: Individually tested for aerosol leakage (DOP/MPPS)
Rigid Frame (Aluminum or Galvanized Steel): Provides structural integrity even under pressure
Silicone Gel or PU Gasket Seal: Prevents air bypass for true filtration performance
Low Resistance with High Efficiency: Balances performance with energy savings



How It Works

1. Contaminated air enters the filter
2. Sub-micron particles like bacteria, viruses, and dust are captured by the dense microfiber media
3. Air exits purified, meeting strict ISO and cleanroom requirements
4. The deep-pleated structure allows for longer service life and maximum filtration area within compact housing

Typical Applications

1. Cleanrooms (ISO Class 3–8)
2. Hospitals & Operation Theatres
3. Pharmaceutical & Biotechnology Industries
4. Semiconductor Manufacturing
5. Aerospace & Food Processing Facilities
6. Laboratories & Biosafety Cabinets
7. Air Handling Units & Terminal HEPA Housings

SPECIFICATION WILL BE AVAILABLE WITH THEIR CERTIFICATES

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HEPA FILTER (H14) (PLEATED) [IMPORTED]

Key Features & Benefits

H14 Grade Efficiency (EN 1822): Removes 99.995% of 0.3 µm particles
Mini-Pleat Media Technology: Provides uniform airflow and high surface area in a slim profile
Lightweight & Compact Design: Easy to install in limited-space AHUs and ceiling modules
Individually Scan-Tested: Ensures zero leakage and guaranteed performance
Rigid Plastic or Aluminum Frame: Moisture-resistant and corrosion-free
Seamless PU or Gel Gasket: Prevents air bypass and guarantees tight sealing
Energy-Efficient: Low initial pressure drop and long filter life

How It Works

1. Contaminated air passes through the pleated glass microfiber media
2. Sub-micron particles such as bacteria, aerosols, and fine dust are captured
3. Clean, sterile air exits with no bypass due to the tight-sealing gasket and rigid frame
4. The mini-pleated design supports higher media surface in a thinner frame, optimizing both airflow and filtration performance

Typical Applications

1. Pharmaceutical Cleanrooms & Production Lines
2. ICU, OT & Critical Care Units in Hospitals
3. Microelectronics Manufacturing
4. Aerospace & Food Processing
5. Biological Safety Cabinets
6. HVAC Terminal HEPA Modules
7. Paint Booths & Precision Laboratories

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ACTIVATED CARBON FILTER

Key Features & Benefits

Odor & Gas Removal: Captures VOCs, odors, and airborne chemicals like formaldehyde and sulfur compounds
High Adsorption Efficiency: Made with high-grade activated carbon granules or impregnated carbon sheets
Durable Construction: Rigid frames prevent leakage or bypass
Low Pressure Drop: Ensures efficient airflow while filtering gases
Customizable Designs: Available in panel, pleated, or box-type structures
Optional Pre-Filters: Extend filter life and protect carbon media from particulates

How It Works

1. Contaminated air passes through activated carbon media
2. Carbon granules adsorb gases and chemical vapors via physical and chemical bonding
3. Clean, odor-free air exits through the other side of the filter
4. Carbon filters may be used in combination with HEPA or synthetic filters for dual-stage filtration

Typical Applications

1. Hospitals & Laboratories: To neutralize chemical smells and anesthetic gases
2. Food Processing Areas: For removing strong organic odors
3. Commercial Kitchens: Eliminates cooking fumes and grease vapors
4. Pharmaceutical Plants: To trap solvent fumes and volatile compounds
5. Data Centers & Control Rooms: For protection from corrosive gases
6. Offices, Airports & Shopping Malls: Improves indoor air quality by removing pollutants

Specifications

Media Type: Activated Carbon Granules or Impregnated Carbon Sheet
Recommended Final Pressure Drop: 250–300 Pa
Operating Temperature: Up to 50°C
Humidity Resistance: Up to 90% RH
Custom sizes available.

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ACTIVATED CARBON PLEATED FILTER

Key Features & Benefits

Dual Functionality: Removes dust and fine particles while adsorbing odors and gases
Pleated Design: Provides larger surface area for better airflow and longer service life
Compact & Lightweight: Easy to install and replace in standard HVAC filter housings
Low Initial Resistance: Maintains efficient air delivery with minimal energy use
Custom Sizes Available: Tailored to fit various ventilation and air purification systems
Environmentally Safer Air: Enhances indoor air quality by targeting VOCs and fumes

How It Works

1. Air enters the pleated carbon media, which traps particulate matter like dust and pollen
2. Activated carbon layer embedded within or laminated onto the pleats adsorbs gases and odors
3. Clean, filtered air exits from the other side—free of both solid and gaseous pollutants

Typical Applications

1. Offices & Commercial Buildings – Improves comfort by removing odors and airborne dust
2. Hospitals & Clinics – Controls odors, smoke, and bacteria-laden particles
3. Laboratories & Cleanrooms – Adsorbs chemical fumes and VOCs in sensitive areas
4. Restaurants & Kitchens – Neutralizes cooking smells and fumes
5. Pharmaceutical & Cosmetic Units – Reduces solvent and chemical vapor emissions
6. Airport Lounges, Theaters, Malls – Enhances breathable air by controlling pollution sources

Specifications

Media Type: Pleated Activated Carbon
Frame Type: Moisture-resistant cardboard or metal frame
Final Pressure Drop Recommendation: 250–300 Pa
Operating Temperature: Up to 50°C
Humidity Resistance: Up to 90% RH (non-condensing)
Custom sizes available.

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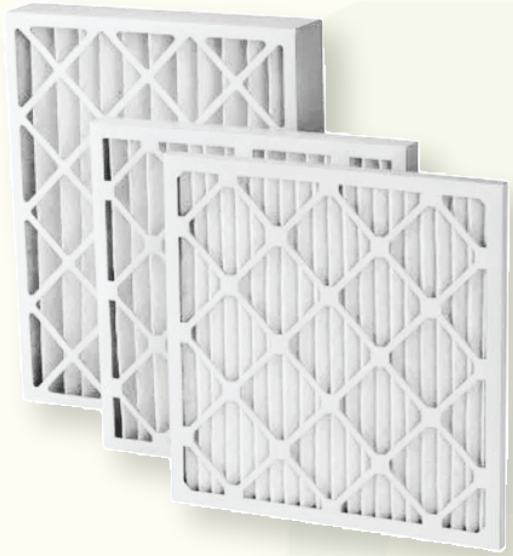
PLEATED FILTERS VS PLANE FILTERS

	Feature	Pleated Filter	Plane Filter
1	Media Surface Area	High (folded/pleated design)	Low (flat, no folds)
2	Filtration Efficiency	Medium to High (up to F9 / MERV 14)	Low to Medium (G2–G4 / MERV 4–8)
3	Dust Holding Capacity	High	Low
4	Service Life	Longer	Shorter
5	Cost	Higher	Lower
6	Weight	Heavier	Lightweight
7	Reusability	Mostly disposable (few washable options)	Some washable options
8	Space Requirement	Requires more space due to pleats	Compact, fits most standard housings
9	Best Use	For finer filtration, HVAC & industrial units	As a pre-filter or for coarse dust capture
10	Pressure Drop	Lower over time (due to more media)	Increases quickly as media fills up

MORE FILTERS AND OTHER ITEMS



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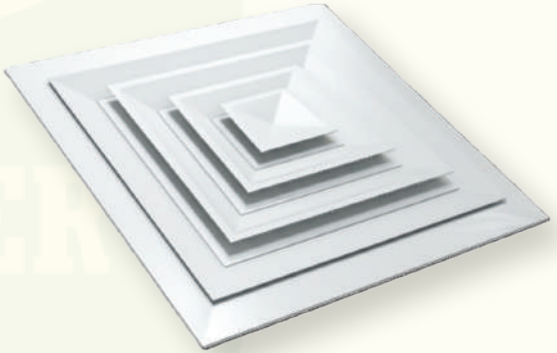

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SIZES AND SAMPLE POLICY

At [Ali Air Filter], we understand that every HVAC system may have unique requirements. That's why custom filter sizes can be manufactured upon request, tailored precisely to your specifications.

Please note, sample requests are subject to a cost. This policy has been implemented to protect the originality and proprietary design of our products, as we've previously experienced unauthorized replication following the distribution of free samples.

We remain committed to providing high-quality solutions and appreciate your understanding and cooperation in maintaining the integrity of our innovations.

For custom size inquiries or sample requests, please contact us directly in our giving numbers or email below:

Thank you for taking the time to explore our catalog. We appreciate your interest in our filtration solutions and look forward to the opportunity of working with you.

Whether you're seeking standard sizes or customized filters tailored to your specific needs, we are here to assist you every step of the way.

~ Let's talk clean air. Get in touch with us today ~

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