



AFX™ Series – Air Filtration Excellence Clean Air, Clean Performance

AFX-PLT™ – Pleated Panel Filters Product Highlights

Filtracore Asia's **AFX-PLT™ Pleated Panel Filters** are cost-effective, extended-surface prefilters for commercial HVAC and general ventilation, built around the market's standard **1", 2", and 4" depths** for true **drop-in** replacement in existing frames and side-access housings. The range covers **MERV 8–13** with corresponding **ISO 16890 ePM classes** (model-dependent), mirroring the mainstream pleated offer from tier-one brands and enabling portfolio-wide standardisation without over-specifying efficiency.



Media constructions are tuned to common site needs: a **moisture-resistant, mechanical 100% synthetic** option for stable, maintained efficiency (no electret dependence), an **electrostatically enhanced synthetic** option for projects that prefer charged media, and an **activated-carbon composite** option for **light-duty odour/VOC reduction** when molecular control is required in the same 1"–4" footprint. These match how leading suppliers position mechanical pleats (e.g., Camfil 30/30, AAF PerfectPleat) and carbon pleats for IAQ comfort control (e.g., AAF FCP Carbon Pleat, Camfil CityPleat).

Construction options include **self-supported media (no wire)** for safer handling and even dust loading, or **wire-backed** pleats for traditional frames – both proven in heavy facility duty. The family's low initial resistance and high dust-holding capacity support **longer service intervals** and **lower energy spend**, consistent with the positioning of benchmark pleated lines.

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For cross-referencing and mixed-fleet continuity, AFX-PLT™ aligns with well-known pleated series such as **Camfil 30/30®** (MERV 8/8A, 1"–4"), **AAF PerfectPleat® / PREpleat® (M11–M13)**, **Parker Airguard® DP-Green® 13**, and **Viledon® Pleat Series**, provided **nominal size, depth, and efficiency class** are matched.

Reliable Prefiltration. Maintained Efficiency. True Drop-In Fit.

Applications - AFX-PLT™ – Pleated Panel Filters

AFX-PLT™ Pleated Panel Filters are deployed where cost-effective, maintained-efficiency prefiltration and low initial resistance protect downstream coils, fans, and higher-efficiency stages while stabilising system energy. Typical applications include:



- **Commercial offices, retail & hospitality:** supply/return prefiltration to reduce dust load, extend coil cleanliness, and support IAQ programmes
- **Healthcare & pharmaceuticals:** AHU intakes and prefilters upstream of pocket/bag/HEPA modules; select MERV 11-13 per facility risk assessment
- **Education & public buildings:** classrooms, campuses, libraries, arenas, and civic facilities with high occupant turnover
- **Data centres & telecom:** make-up/return air prefiltration to stabilise ΔP across fine stages and support uptime
- **Food & beverage HVAC (non-product contact, dry zones):** make-up/recirculation air in packaging and utilities; compliance documentation available on request
- **Light industrial & warehousing:** general ventilation prefiltration; choose MERV grade to match dust profile and change-out policy
- **Kitchens & odour-sensitive areas (make-up/recirculation):** AFX-PLT-AC™ for comfort odour/VOC reduction; not a substitute for grease filtration or dedicated molecular systems
- **Paint facilities (make-up air):** intake prefiltration only; not for overspray arrest (use dedicated arrestor media)
- **Cleanroom & electronics prefiltration:** upstream of pocket/fine/HEPA stages; coordinate MERV/ISO grade with the design basis.

OEM Compatibility & Replacement Cross-Reference

AFX-PLT™ Pleated Panel Filters are produced in industry-standard nominal sizes and 1" / 2" / 4" depths for true drop-in use in common commercial frames and side-access housings. Representative equivalents¹ include:

- **AAF®** – PerfectPleat® ULTRA, PerfectPleat® HC M8, PREpleat® M13, MEGApleat® M13
- **Camfil®** – 30/30® G, 30/30® Dual 9, Aeropleat® III, Aeropleat® AP-Thirteen
- **Parker Hannifin® (Purolator® / Airguard®)** – Key Pleat®, DP-Green® 13 / Puro-green® 13, DP / DP-Max pleated series
- **AAF Flanders® / Precisionaire®** – PREpleat® M8, PREpleat® M13
- **Freudenberg® Viledon®** – Pleat Series, WinAir Pleat; CarboPleat for activated-carbon pleated IAQ control

Other compatible OEM systems upon request

Ordering Information - AFX-PLT™ – Pleated Panel Filters

When placing an order, please specify the following:

- **Nominal size (H × W × D):**

Standard depths 1" / 2" / 4" (approx. 25 / 50 / 95 mm). Common metric sizes include 592×592, 592×287, 610×610 (other sizes on request). If the fit is tight, provide actual size (mm) required by the AHU rail



- **Efficiency grade:**

MERV 8, 9/10, 11, 13 (per ASHRAE 52.2). ISO 16890 ePM10 / ePM2.5 / ePM1 class by model. Specify the standard to be enforced (MERV or ISO 16890)

- **Media construction:**

SF (mechanical synthetic, moisture-resistant) for maintained efficiency; ES (electrostatically enhanced synthetic) where charged media is acceptable; AC (activated-carbon composite) for light-duty odour/VOC reduction in the same 1"–4" footprint

- **Frame type:**

Moisture-resistant beverage-board (die-cut) as standard; galvanised-steel U-channel or plastic frame on request for heavy-duty service

- **Pleat support / backing:**

Self-supported (no wire) media or wire-backed/expanded-metal support (specify preference)

- **Gasket / seal (optional):**

Closed-cell neoprene or EPDM; upstream or downstream location; full perimeter or selected edges

- **Design airflow / face velocity:**

State the intended face velocity (m/s) and corresponding airflow per filter (m³/h) to align ΔP and change-out targets with site energy policy

- **Activated-carbon option (AC):**

Indicate carbon loading (g/m²) target if specified and the IAQ objective (odour comfort vs specific VOCs). Note RH sensitivity for molecular capacity

- **Application notes (optional):**

Expected dust profile, operating temperature, humidity exposure, change-out policy (final ΔP target), and any compliance documentation required

- **Packaging / identification:**

Each filter is labelled with series (AFX-PLT™), size, depth, efficiency grade, media, frame type, support/backing, gasket (if any), and lot/traceability code

¹ Compatibility is based on matching nominal size, depth (1"/2"/4"), frame style, and efficiency class (MERV/ISO 16890). Always verify actual dimensions, header/frame thickness, and pressure-drop/face-velocity limits before substitution. All product names are trademarks of their respective holders; use does not imply affiliation or endorsement.

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