

# AIR INTAKE SYSTEMS FROM FAIST.

R&D into Air Filtration media and performance

FAIST continuously researches media and develops latest air filtration technologies. Important focus is placed on water removal, water resistance and long life, whether with traditional or EPA efficiency.



DS - Reverse Pocket Filter (no need for inner frame)

Up to M5 efficiency No water breakthrough



3D drainage



Stiffened and Tight Protection Grids on all sides downstream



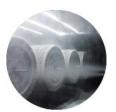
FVX (32m2) and FVXX (50m2)

Picture showing FVX loaded with water without passing through



**DS – coalescer/prefilter** Up to F7 efficiency No

water breakthrough

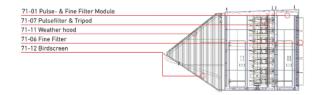


CFD & Empirical Tests to develop best pulse design to ensure complete cleaning around the filter elements

### R&D into Pulse-Cleaning Filtration

FAIST has developed new solutions to avoid the typical issues of bypass, poor pulse effectiveness and poor dust extraction. The result is higher integrity, availability, efficiency and protection.

Туре	Face Velocity	Ref. Size (WxH) for large GT	Initial Dp across filters	Length of Filters	Dust Evacuation Concept
GDX	2.8 m/s	А	200 Pa	1.32 m	Gravity
TTD	1.5 m/s	N/A	150 Pa	0.66 m	Gravity
Faist Single Cylinders	1.8 m/s	A x 1.2 - Large	110 Pa	0.8-0.9 m	Gravity
ASC or SSC	3.2 m/s	A x 0.75 - Small	220 Pa	1.2 m	Inertial



// Latest design for high capacity and long life // Latest media technologies (including water repellency) // Latest materials to ensure robustness // R&D from material analysis to system integration // Work with OEMs

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FCP (G4-M5)



F-DSR (G4-M6)



FRP (G4-F7)



FVX (M6-H13)



F-Met-Coal (G2-G3)



FSP (M6-F7)



FSP (G4-M6)



FVXX (F9-H13)



FV (M6-H13)



FV-R (M6-H13)



Drop-Safe (G4-F7)



**FVH (M6-H13)** 



**FPF-Cylinder** (M6-E10 Pulse)



FPF-Cylinder-Cone (M6-E10 Pulse)



FPF-Cylinder-Cylinder (M6-E10 Pulse)



**FPAK** (M6-E10 Pulse)

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