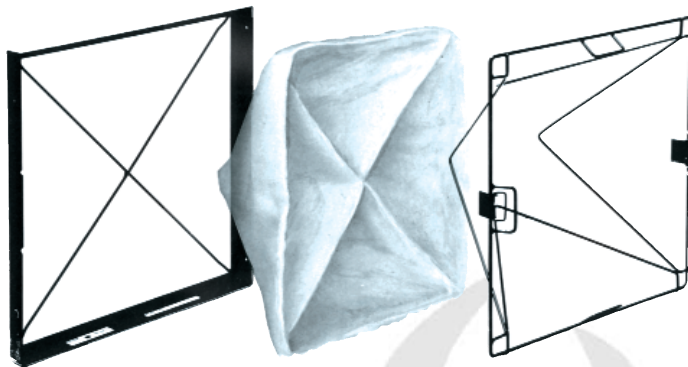




Fourpeak™ Deep bed air filter



Exploded view, Fourpeak standard flow model

Description

The Fourpeak filter is a high performance deep bed filter available in standard and reverse flow models, providing high capacity with intermediate efficiency. The high performance is obtained through a multi-pyramidal configuration giving a maximum of filtering area without excessive depth in the direction of airflow.

The design of the Fourpeak filter is registered and patents have been granted. The metal frame and all wire media supporting frames are powder coated or galvabond to prevent corrosion and to provide a smooth, snag-free media supporting surface.

Several types of alternate media, both gel-coated and dry, are available.

The gel-coated media are adhesive impregnated while dry media are operated without adhesives.

All media are of the synthetic type, made from graded fibres and bonded. They are moisture, fire and fungus resistant and will not shed fibres into the clean air stream.

Construction details

The standard airflow model consists of three basic parts:

- (1) a mounting frame,
- (2) an inner wire basket,
- (3) a media kit.

The mounting frame is constructed of steel material. Two diagonal wires welded to the back of the frame rest in the formed media basket which is sewn to shape.

The inner frame is of fabricated wire construction, incorporating wires that fit into the peaks of the media, thereby holding it's shape.

The all-wire inner-frame incorporates handles to facilitate removal. Formed clips affixed to the inner frame hold the inner frame securely in place.

Product data - FP standard flow

Further information on Fourpeak accessories, reverse flow models and alternative media types is available on request from your nearest AES Environmental sales office.

Description	FP22/HG	FP22/DGH20	FP22/DG50
Performance rating	G4	G4	F5
Test report reference	96068	RALC00315	RALC00340
Part No. - repl. Media	1516-2826/11	1516-2826/10	1516-2826/20
Media type to AS1324.2.4 and 5	Type 2 Class B	Type 1 Class B	Type 1 Class B
Dimensions* HxWxD (mm)	610x610x380	610x610x380	610x610x380
Weight* (kg)	5.6	5.5	5.5
Media area (m ²)	0.98	0.98	0.98
Rated capacity (m ³ /s)	0.944	0.944	0.944
Initial resistance (Pa) @ rated capacity	42	65	126
No.1 Dust average efficiency @ rated capacity	22%	33%	47%
No.4 Dust holding capacity (g) @ rated capacity	356	539	437
Recommended final resistance (Pa) @ rated capacity	150	250	250
Max. operating temperature (°C)	120	120	100

Notes: 1. Filter specifications subject to change without notice.

Performance testing

All filters tested to AS1324.2.4 and 5: Air Filter Performance.

Test laboratory is accredited by the National Association of Testing Authorities, Australia. Accreditation number 13213.

Performance tests are conducted at least once every 5 years within a controlled environment in accordance with NATA and Australian Standards requirements.

To request a current test report contact the sales team at your nearest AES Environmental branch.

How to specify

Air filters shall be AES Environmental Fourpeak type, 610 x 610mm face dimensions, 0.944m³/s capacity,

fitted with (specify gel-coated or dry) media. At rated capacity, average efficiency by AS1324.2.4 and 5 No.1 test procedure shall be not less than (see chart)% with a No.4 dust-holding capacity of at least (see chart) g. Mounting frame and media supporting wire baskets shall be polyester powder coated in a black colour (or specify galvabond) to resist corrosion.

Installation

Fourpeak filters are easily made up into banks using standard 610 x 610 (FP22) and 305 x 610 (FP21) module sizes. To prevent air by-pass, a suitable sealant should be used between mounting frames and duct walls. Where the bank height exceeds 2 metres it is recommended that continuous stiffening bars be installed vertically between alternate rows of frames.

Addresses

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