

# Vokes Nano-V

## Rigid compact air filter



The new Nano V brings to the market an exciting change to the air filtration market. Formed through a mechanical process that integrates very fine fibre material in a manner where both coarse and fine fibers create a three dimensional structure. The coarse fibre provides the strength support and protection to the fine fibre material and through modeling we can adjust the gradient to deliver a consistent efficiency across the entire filter media.

The difference is the application of endless fibre lengths when creating the Nano V material. Typical modern day products using synthetic or fibre glass material bond varying fibre lengths to each other and during filter life or poor handling this bonding can break off causing fibre 'shed' downstream.

### Description

The Nano-V fibre due its unique uniform consistency effectively banishes the age old problem of filter media shedding to the chronicles of yesterday.

Anti-microbial characteristics of the filter mean that no extra antimicrobial coatings are required, making the Nano-V filter an ideal choice for food preparations areas and processing plants.

The Nano-V is a fully disposable light rigid filter, assembled in a '3-V' style. The additional pleat depth provides improved air flow and lower pressure drop. The Nano-V remains 100% water and moisture resistant, offering no basis for microbial growth to occur. Nano-V remains silicon free and easily disposed, enabling it to be used within the paint industry.

### Efficiencies

Nano-V air filters are available in ratings F6 (60/65%), F7 (80/85%), F8 (90/95%) and F9 (90%+).

### Durability

The final product is extremely durable with high compressive strength in the airflow direction. This durability also ensures that there is no damage to the pleats during transportation and storage.

The Nano-V rigid compact air filter remains environmentally friendly. Extruded polypropylene separators are added to the pleated media in order to achieve a uniform '3-V' pleat configuration.



## Performance Data

PART NO.	DIMENSIONS (MM)	RATING	FLOW RATE (L/S)	INITIAL RESISTANCE	REC. FINAL RESISTANCE	A.S. 1324.1 (EQUIVALENT)	DUST HOLDING CAPACITY (G)
VNMP65610610300	610 x 610 x 292	F6	944	47 Pa	450 Pa	60-80%	681
VNMP65610305300	610 x 305 x 292	F6	472				
VNMP85610610300	610 x 610 x 292	F7	944	73 Pa	450 Pa	80-90%	300
VNMP85610305300	610 x 305 x 292	F7	472				
VNMP95610610300	610 x 610 x 292	F8	944	120 Pa	450 Pa	90-95%	381
VNMP95610305300	610 x 305 x 292	F8	472				
VNMP100610610300	610 x 610 x 292	F9	944	143 Pa	450 Pa	95%+	284
VNMP100610305300	610 x 305 x 292	F9	472				

### Performance Testing

All filters are tested to EN 779:2012 and results shown are comparable when tested to the equivalent AS1324.1. Air Filter Performance. All media contained and used in the NANO-V construction contains no harmful or cancer causing glass wool fibre material of the type that may irritate eyes, skin and the respiratory system, through prolonged inhalation. The material doesn't produce combustible dust concentrations or contain H351 type, a classified carcinogen.

For further information contact the sales team at your nearest AES Environmental branch, on the number below. AES Environmental is ISO 9001:2008 and NATA accredited.

### Installation

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

### How to Specify

Air filters shall be Vokes NANO-V Compact disposable filter type. Media construction should comprise of a blend of coarse and fine diameter endless nano fibre. The material should be free from Silicon and remove 100% moisture content. Material is to be held in place by extruded separators and be sufficiently labeled for efficiency identification. Standard size filters can be ordered using the part numbers located above. Standard sizes are 610x610 x 292 mm deep, or 305 x 610 x 292 mm deep with a flow rate of 944l/s or 472 l/s.

Filter mounting frames will be manufactured from galvanised steel and be complete with gasket seals and spring steel retaining clips.

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*In keeping with our policy of continuing product improvement, we reserve the right to alter specifications without notice.*



Unit 5 Arcot Court,  
Cramlington, NE23 1BB  
Ph 01670 712 112  
sales@clydeapac.co.uk  
www.aesenvironmental.co.uk

