

# Pyracone & Pyracube Deep Bed Air Filters



## Applications

Pyracone and Pyracube deep bed filters are ideal general purpose filters for applications where high efficiency and long duty cycles are required. Both filters offer superior performance to typical roll type and metal viscous filters.

The key to the excellent performance of these filters is their shape. Pyracubes are a Pyramid within a cube in construction, while Pyracone is a cone within a truncated cone.

The design of the Pyracone and Pyracube filters are registered and patents have been granted.

The main difference between the two configurations is that the Pyracube with its' square outer construction provides a higher dust holding capacity.

Pyracubes' lower initial pressure differential allows longer periods between servicing especially in remote locations such as transmission stations, and heavily dust-laden areas that require higher efficiency performance levels.

## Construction Details

Pyracone and Pyracube filters consist of three basic parts:

- the filter media
- a mounting frame assembly which incorporates the "outer" media wire retaining basket
- an "inner" wire retaining basket

The media is formed to shape and sewn with polyester thread. In the Pyracone PCO22/24, the configuration of the media is a cone within a truncated cone. In the Pyracube PC22/24, the configuration of the media is pyramid within a cube.

The height of the inner piece of each filter is equal to the overall filter depth so that the apex is in the same plane as the open air side.

Half-size Pyracone and Pyracube models are also available, which have similar construction with face dimensions cut in half.

Mounting frame is constructed from galvanized steel. The inner frame is of all-wire construction and incorporates handles to facilitate removal. Formed clips affixed to the mounting frame snap over the handles to hold the inner frame securely in place. The retaining clips cannot be snapped over the handles until the inner basket is completely inserted.



## Product Data - Pyracone & Pyracube

Further information on Pyracone and Pyracube accessories and alternative media types are available on request from your nearest AES Environmental sales office.

DESCRIPTION	PYRACONE PCO22/HG	PYRACONE PCO22/DGH20	PYRACONE PCO22/DG50	PYRACUBE PC22/HG	PYRACUBE PC22/DGH20	PYRACUBE PC22/DG50
Performance Rating	G4	G4	F5	G4	G4	F5
Test Report Reference	96031	RALC00320	RALC00319		1418/93	RALC00310
Part No. - Repl. Media	1516-2691/5	1516-2691/2	1516-2691/20	1516-2614/13	1516-2614/11	1516-2614/20
Media Type to AS1324.1.2.1	Type 2 Class B	Type 1 Class B	Type 1 Class B	Type 2 Class B	Type 1 Class B	Type 1 Class B
Dimensions* H x W x D (mm)	610 x 610 x 650	610 x 610 x 650	610 x 610 x 650	610 x 610 x 620	610 x 610 x 620	610 x 610 x 660
Weight* (kg)	7.5	7.5	7.5	9.5	9.5	9.5
Media area (m <sup>2</sup> )	1.98	1.98	1.98	2.4	2.4	2.4
Rated Capacity (m <sup>3</sup> /s)	0.944	0.944	0.944	0.944	0.944	0.944
Initial Resistance @ Rated Capacity (Pa)	26	25	60	38	30	50
No.1 Dust Average Efficiency @ Rated Capacity		24.69%	41.53%	22.00%	23.20%	41.84%
No.4 Dust Holding Capacity (g) @ Rated Capacity		1138	555	750	1369	723
Recommended Final Resistance @ Rated Capacity (Pa)	125	125	125	125	125	125
Max. Operating Temperature (°C)	120	120	100	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 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.

### Installation

Pyracone and Pyracube filters are easily made up into banks using standard module sizes. Hardware and installation instructions can be supplied if required. To prevent air by-pass, an approved sealant should be used between mounting frames and also between mounting frames and the duct wall. As with all deep bed filters, the weight of dirt in the filter units could tend to distort a large bank of filter frames.

Where the bank height exceeds 2 metres it is recommended that continuous stiffening bars be installed between alternate tiers of frames.

### How to specify

Air filters shall be of the deep-bed fixed panel high efficiency type: Email Air Handling (specify Pyracone or Pyracube & media type) or approved equal, face dimensions 610x610mm.

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



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